

CATALOGUE
of
Certain-teed
PRODUCTS

ROOFINGS -- PAINTS -- VARNISHES

&
RELATED PRODUCTS
FOR ALL PURPOSES

■ ■

Certain-teed Products Corporation
EXPORT DEPARTMENT

WOOLWORTH BUILDING
NEW YORK, U. S. A.

FIRST NATIONAL BANK BUILDING
SAN FRANCISCO, U. S. A.

CABLE ADDRESS
"Certenteed"

Codes—Western Union, Bentley and A. B. C. 5th Edition



Shelter

Is One of the Supreme Necessities of Mankind!

WHEREVER man inhabits the earth we find some type of shelter — ranging from the most primitive caves to the modern dwellings and buildings of civilization.

The principal needs of man are food, shelter, clothing and transportation; the need of these four factors — and the want to better them — increasing in proportion to the rate of advancement of civilization.

As civilization advances, the other three factors become more and more dependent upon the factor shelter, and the type of shelter prevailing in a community or country is indicative of the stage of civilization reached by its inhabitants.

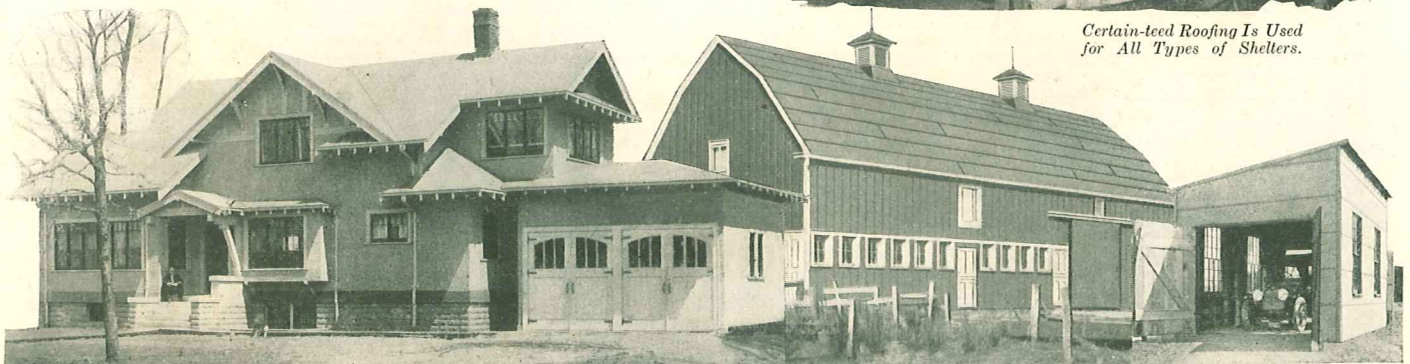
The better a man and his property are protected from the atmospheric agencies, the better are his

living and working conditions. Good shelters must have good roofs, and good roofs must be weatherproof, waterproof, fire-retardant, durable and economical.

There is a growing demand in every community throughout the world for roofs of the right kind. Because *Certain-teed* Extra Quality Roofing answers all of the requirements, and can be furnished quickly and at a very reasonable cost to any country; because it is *the roofing* for all types of shelter in any climate; the demand for it is rapidly increasing throughout the world.



Certain-teed Roofing Is Used for All Types of Shelters.



Certain-teed

*Talc Surfaced Roofing

Extra Quality

How Made This is an extra quality roofing, made of our very best roofing felt, which is thoroughly saturated in our properly blended soft asphalts and coated with a harder blend of the same materials. This keeps the inner saturation soft and prevents the drying out process, which is so destructive to ordinary roofing.

**Roofs Don't Wear Out—
they dry out** Roofs usually do not have hard usage to contend with, and, consequently, tough-to-tear roofing offers no special advantage. The only deterioration in Prepared Roofing is from the action of the sun, which *dries out* poorly saturated roofing materials, causing them to crack, *dry out*, and fall to pieces. The all-important factor in a Prepared Roofing is its resistance to this process of deterioration. The soft asphalt center, which is hermetically sealed by the outer coating, is the secret of the success for which *Certain-teed* is famous.

Test of Quality Most all roofings look alike, and it is impossible for even an expert to determine the quality of a piece of roofing by its appearance or by any so-called "tests," such as bending, twisting, tearing, or smelling. Roofing quality can be determined only by a knowledge of what materials have been used in the process of manufacture. A roofing that contains 75 per cent paper stock looks just as well as one in which rags have been used exclusively. After roofing is once saturated

and coated with asphalt, this process precludes an analysis of the raw materials of which the roofing is composed.

Real Tests Having no recourse to the chemists or to the so-called roofing "expert" for reliable tests, the buyer must rely upon the integrity of the manufacturer. No other concern has a better standing than ours, and the buyer, consequently, is fully protected by our willingness and our ability to stand behind our goods.

An Effective Roof *Certain-teed* Roofing is absolutely water-proof in every respect. It is not affected by heavy rains or snows, and it does not expand or contract with extreme heat or cold. It is acid-proof, and therefore is not affected by gases, acids, coal smoke or fumes of any kind. As it is spark-proof and fire-retardant, burning embers or flying sparks will not set the roof on fire.

The Best Known *Certain-teed* Roofing is well and favourably known in all parts of the world. This is due to its extensive use and universal satisfaction. Architects, engineers, builders, construction men and owners who have specified or used it are well satisfied with the results. Our advertising has assisted in making *Certain-teed* the best known roofing on the market.

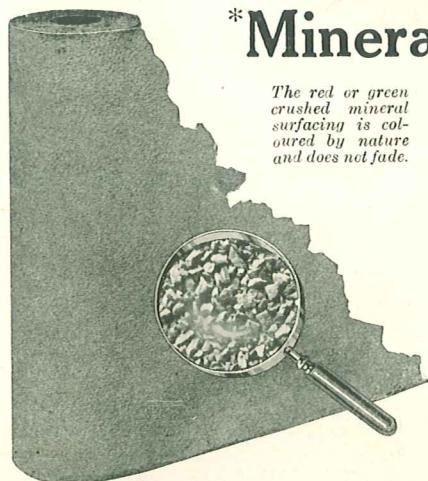


Made in Three Thicknesses: 1-ply, 2-ply and 3-ply.

Certain-teed

*Mineral Surfaced Roofing, Red or Green

In Roll Form and in Shingle Form



The red or green crushed mineral surfacing is coloured by nature and does not fade.

Uses and Advantages

We recommend this roofing for buildings where good appearance, as well as long service, is desirable. Architects, builders and owners use this form in preference to ordinary smooth-surfaced asphalt roofing where it is necessary to secure a better appearance. In choosing between the roll and shingle form of mineral-surfaced goods, the roll roofing offers a considerable advantage in the matter of economy. The method of laying a shingle roof naturally results in a treble thickness, or three times as much material as is used when laying the roll form; but in the latter case, only a single thickness is secured. Both forms, however, will, when properly applied, give about the same length of service. This Roofing can be used to advantage in covering buildings of all types having sloping roofs. It is recommended for residences, bungalows, churches, barns, garages and other buildings.

*For detailed sizes, weights and packing schedules, see pages 20 and 21.

of every description, large or small. This Roofing is not affected by acids, gases, vapors, or fumes of any kind, and can, therefore, be used with good effect on buildings located in districts where such conditions are found. It does not expand or contract by extreme heat or cold, and as it possesses the same fire-resisting qualities as *Certain-teed* Shingles, the buyer assumes practically no risk from fire.

Easy to Lay *Certain-teed* Shingles are flexible and do not chip or break. When laid they conform closely to the surface beneath, stiffen, and remain permanently in that position. They are readily adapted to curves and bends and are easily trimmed to fit odd spaces. Because of this and their uniform size they are laid rapidly and with almost no waste. They can be laid on any slope or roof framework suitable for wood shingles, slate or tile, and possess the additional advantage of not splitting, as other types of shingles often do, when nailed close to the framework. Furthermore, *Certain-teed* Shingles are of uniform size, weight and colour, thus eliminating the necessity of sorting the shingles before laying them on the roof. The size and weight of each package of shingles are such that they are not cumbersome to handle. Full directions for laying are always furnished with the shingles.

Non-fading The Red or Green of *Certain-teed* Asphalt Shingles is the beautiful *natural* colour of the mineral used for the surfacing. This color will soften with seasoning, but it will not fade. The expense of frequent stainings or paintings is thus avoided.

What *Certain-teed* Means

The word "*Certain-teed*" is a coined word (a combination of the words "certified" and "guaranteed"), and means that the quality of the raw materials used in *Certain-teed* Products is certified to by our Board of Expert Chemists, and that the durability of the finished goods is guaranteed by the manufacturer.

The *Certain-teed* label of quality is applied only on our highest grade products, and only at our own mills, and it gives the buyer a definite protection against poor, unserviceable products. Goods bearing this label can be purchased in practically every city, town and village in the United States and in the principal foreign countries.

Lasting All *Certain-teed* Roofings are made from soft rag-stock felt specially formed to carry an abundance of blended-asphalt saturation, the life of the roof. The "soft center" for which *Certain-teed* is noted is a reservoir of surplus saturation—of reserve life. In shingle form three full thicknesses cover the entire roof surface and thus many years of service are assured.

Fire Protection Asphalt Shingles and prepared roofings are extremely fire-resisting. They will not support their own combustion, and are proof against sparks and brands. Wooden shingles furnish additional flying brands to create other fires. Asphalt Shingles do not. Furthermore, they confine interior fires. Often a fire under slate or tile roofs will weaken the superstructure and the weight of the roof causes it to collapse, sending showers of sparks upon the surrounding buildings. Asphalt roofings being lighter in weight stand up much longer under similar conditions.



A row of cozy homes, roofed with *Certain-teed* Shingles, recently erected in Oak Park, a suburb of Chicago, Ills., U. S. A. Because of the ready manner in which *Certain-teed* Asphalt Shingles, Red and Green Mineral Surfaced, lend themselves to the development of artistic effects, they may be used to an advantage on sloping roofs of all types, and in all countries.



*Major Roofing

Talc Surfaced
Standard Quality

Raw Materials The felt from which this roofing is made contains an average grade of good rags and is thoroughly saturated and coated with a good blend of asphalts. Major Roofing, we have found, compares favorably with other brands that are sold and represented as first-grade roofing.



Its Uses It can be used for a great variety of purposes; as a roof covering we recommend it for all ordinary purposes. It is second only to *Certain-teed*. As a siding for temporary structures its use offers excellent shelter, economy and ease of application. Where the buildings are temporary, the roof can be taken off, rolled up and used again for the same purposes.

Economy For the buyer of roofing who finds the question of price important, Major Roofing offers a service that is equal to, if not better than that given by many other first-grade brands.

Fire Protection Major Roofing is fire retardant and proof against flying sparks and brands. Made in three thicknesses, 1-ply, 2-ply and 3-ply.

*Guard Roofing

Talc Surfaced; Mineral Surfaced, Red or Green; and in Shingle form, Mineral Surfaced, Red or Green.

Special Quality

IN many places it is convenient to use a cheaper grade of roofing than those described in the preceding pages.

In our scale of reckoning, Guard Roofing is classed as a third-grade roofing. When compared with other brands supposed to be of similar quality, however, it has been found superior in many respects. Guard Roofing is made of an average grade of raw materials, although not as good as the materials used in Major Roofing or in *Certain-teed*. The service given by this roofing is entirely commensurate with the price, which is low, and it is a bargain for the money.

Where the longest service is not expected, Guard Roofing can be used to advantage on both permanent and temporary structures.

It is also suitable for lining and sheathing purposes, and as such is greatly superior to ordinary sheathing papers, and when laid under tile and slate roofs it prevents leaks caused by rain or snow which is blown under the slate or tile.

Made in three thicknesses, 1-ply, 2-ply and 3-ply.



*Sentinel Roofing

Sand Surfaced
Competition Quality

THIS is the lowest quality roofing manufactured by this Company, and consequently is the cheapest in price.

This roofing is recommended simply as a temporary covering and for repairing old roofs that are not expected to be permanent. It is also recommended for patching leaks and holes in damaged roofs, and, when used for this purpose by roofers, it enables them to make repairs at a nominal cost.

We do not recommend this roofing for permanently covering buildings of any kind, and, of course, it is not guaranteed. It gives good service for temporary purposes and it is absolutely weather-proof and water-proof in every respect. It lasts longer than ready roofings saturated with tar, and nails and cement for laying do not cost extra as in the case of tarred Ready Roofings. Sentinel Roofing is sanded on both sides.

Made in three thicknesses, 1-ply, 2-ply and 3-ply.

Other Uses Sentinel Roofing affords an inexpensive yet effective temporary shelter for cultivated plants that are sensitive to the destructive rays of the sun, and heavy washing rains.

When placed on freshly planted ground it prevents the seeds from being washed away.



PREPARED ROOFING AS A FIRE RETARDANT

THE photograph reproduced above was taken April 14, 1914, by Capt. G. H. Langhtry, of the St. George Fire Department, Yarmouth, Nova Scotia. The building was covered with *Certain-teed* Roofing. Without solicitation of any kind, Capt. Langhtry wrote us as follows:

"I am quite safe in saying that the *Certain-teed* Roofing was a great help to the fire department in preventing the flames from spreading to contiguous buildings. The fire burned rapidly, and the whole superstructure under *Certain-teed* was afire and burned all away when the roofing fell in and in a way that to a certain extent smothered the fire."

*Detailed description of sizes, weights and packing schedules shown on pages 19 and 21.

Certain-teed

Construction Roof

(Sometimes Called "Reinforced Flat Roof")

FOR steep sloping roofs, *Certain-teed* Prepared Roofing and Shingles fill every requirement.

To meet the more difficult conditions which flat or comparatively flat surfaces present, a roof built up on the roof deck, as shown by the illustrations, is recommended.

As applied to a board roof deck (Fig. 1), the method of laying is as follows:

The roof deck must be dry. Beginning at the eaves lay one-half sheet of 1-ply *Certain-teed* Roofing, mopping the underneath side of the sheet and also mopping the sheathing with *Certain-teed* Asphalt Cement applied at approximately 150 degrees Centigrade. Lay the sheet, nailing the top edge every six inches, or more often if necessary. Then lay the second sheet, which is full width, so that its outer edge comes even with the outside

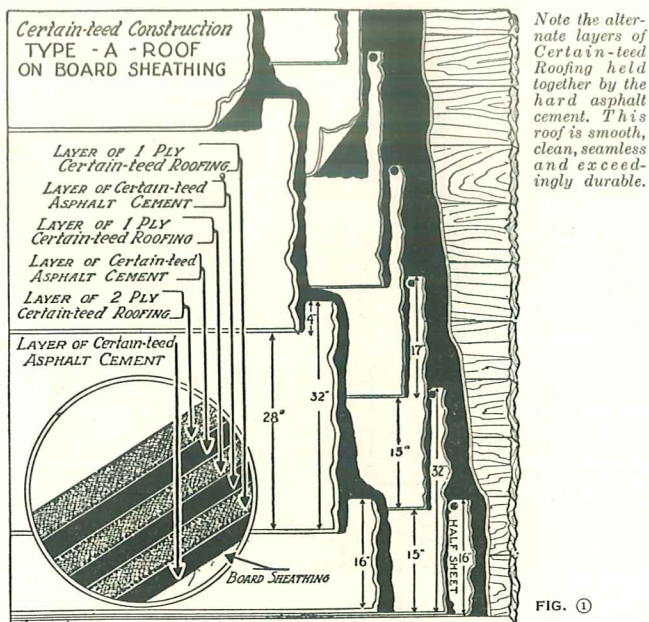


FIG. 1

edge of the half-sheet, nailing the top edge of this sheet every six inches or more, if necessary, mopping the underneath side of this sheet its full width as well as the top surface of the first sheet. Lay the third sheet so that it laps over the second sheet a distance of 17 inches, nailing the top edge as above described and mopping the same as before. In the same manner lay succeeding sheets so that the entire area has two thicknesses of 1-ply *Certain-teed*

Roofing and two layers of the *Certain-teed* Asphalt Cement.

All contacts formed by walls, chimneys, etc., projecting up through or against the roof should be well sealed so as to make them absolutely waterproof and airtight. This is very important, and should be observed closely if a water-proof roof is wanted.

As every sheet of *Certain-teed* Roofing makes a complete roof in itself, two layers of sheets laid in the above

Here you will note the *Certain-teed* Roofing is cemented directly to the concrete roof deck. The advantages of a roof of this type are self-evident.

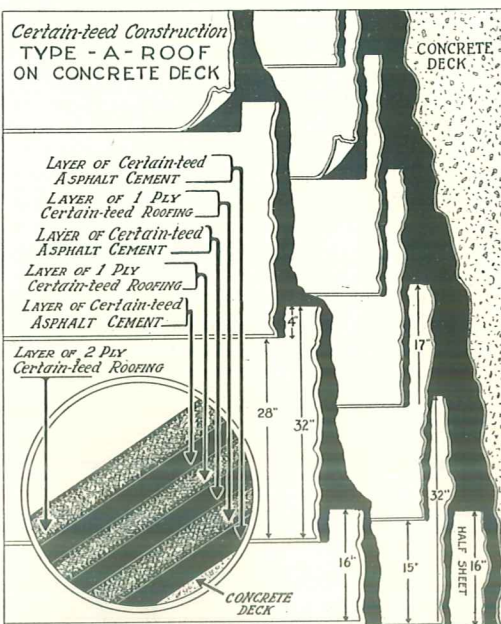


FIG. 2

described manner may be sufficient. The best roofs, however, have an additional cap layer of 2-ply *Certain-teed* Roofing laid in the same manner as that of the second covering of 1-ply Roofing. This finished roofing will last from 15 to 20 years, and an occasional coating about every five years will prolong the life of the roofing indefinitely.

On large buildings, factories, warehouses (godowns) and commercial and industrial structures of practically all types in any country and any climate, these roofings will give complete satisfaction.

Certain-teed Asphalt Roofing resists all the elements which attack a roof—gases, fumes, acids, sparks, as well as the weather.

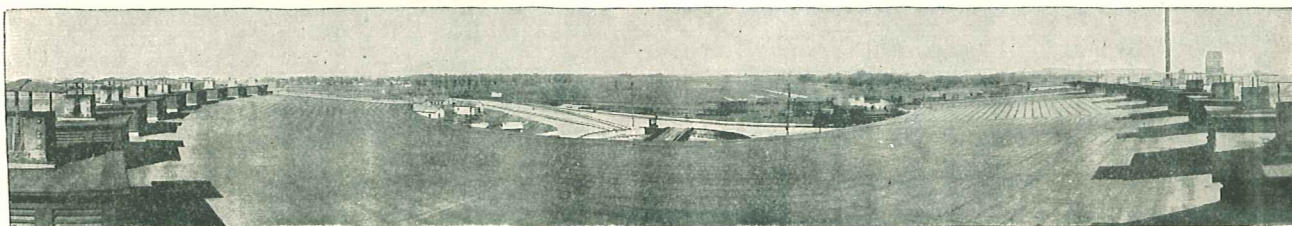
Roofs don't wear out—they dry out! Saturation is the life of the roof, and *Certain-teed* Roofing is so made as to retain the saturation the maximum length of time. Our roofing will not exfoliate, melt or flow in hot climates.

Certain-teed Roofing is neat appearing, smooth surfaced, does not affect the taste or impart an odor to rain-water that is collected for drinking purposes.

The comparatively light weight of *Certain-teed* Construction Roofs is an important and beneficial factor for all builders.

Certain-teed Roofing is lower in cost per year of service than any other type of good roofing.

Complete information may be obtained from our nearest sales office.



Certain-teed Construction Roof, 34,000 square feet in area, on Southern Railway Roundhouse at East St. Louis, Ill., U. S. A.

How Asphalt Roofing Is Made

A Trip Through One of the Largest Roofing Plants in the World

Figure No. 1 shows a pile of rags gathered from all over the world. A large quantity is collected in the United States, but the demand for rags is so great that American roofing manufacturers find it necessary to import large supplies from other parts of the world.

Rags are divided into various grades, and the kinds most desired for roofing felt are those that are soft and have long fibres.

Soft rags insure a thorough saturation with asphalt, and the long fibres, when cemented together in the process of saturating and coating, result in strength. Strength, however, is not in itself a test of the service that any roofing will give; the reason for this is explained later on.

In sorting out rags, such as shown in Figure 2, it is not necessary to select woolen rags. Some manufacturers claim that their roofing is composed of "all wool" felt. By comparing the cost of wool with the price of the roofing, it will readily be seen that such representations are absurd. Our *Certain-teed* Roofing is made from a grade of rags that takes the greatest amount of asphalt saturation, based on the experience of expert chemists whose knowledge of such things is the result of years of investigation and actual tests on the roof.

The raw materials from which *Certain-teed* is made are of such character that it will give the same excellent service in any part of the world and under the most severe climatic conditions.

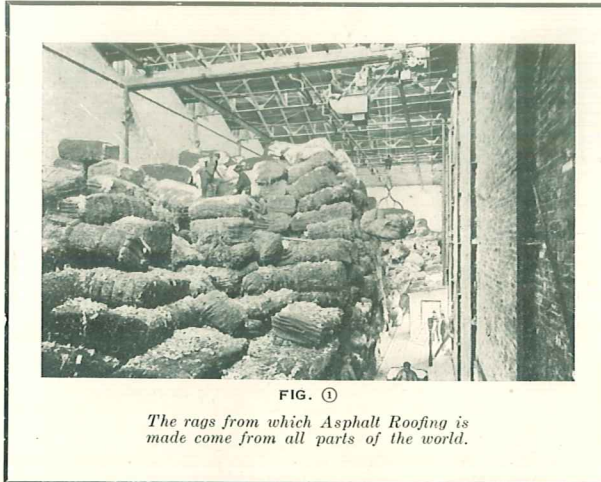
Figure 3 illustrates a room in which rags are cut up into small pieces in the first step of converting them into

fibrous form. From the cutting machine they are taken up on a carrier and automatically removed to the beater room shown in Figure 4. In this process the rags are shredded to a finer degree, and from this point their original form is entirely changed. The "Beaters" are huge bowls, or tubs, in which the rags submerged in water pass through revolving knives, thereby shredding the rags into a pulp. Water is used in connection with this process to keep the mass in liquid form. The fibres may be easily observed by picking up a handful of pulp, and, after squeezing out the water, pulling it apart.

The liquid pulp is next pumped from the beater room into a vat, or tank, which is located at the wet end (Figure 5) of the felt machine in another room. This enormous machine is one of the wonders of a felt and paper mill, and is probably the most interesting step to observe in the entire process of manufacturing roofing.

The sectional view of this machine (Figure 6) gives an idea of how the felt is made. Partially submerged in a vat, or tank (A) is a revolving cylinder (B), the surface of which is covered with fine meshed copper wire cloth, or screen, having suction pumps connected to the interior through the ends. As this cylinder revolves, the pulp is attracted to its surface by the suction inside, and the water is drawn from the pulp and through the screen

surface of the cylinder and out at the ends, leaving the pulp adhering evenly to the outer surface. As the pulp on the partially submerged cylinder rises above the level of



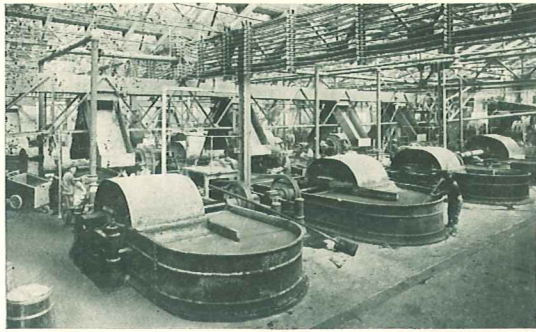


FIG. ④

In the beaters the shredded rags are submerged in water and reduced to pulp.

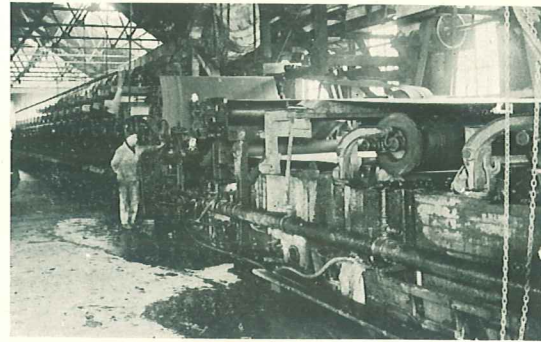


FIG. ⑤

The pulp is pumped to the wet end of the felt machine where it is made into felt.

the liquid in the vat, or tank, it is brought into contact with an "endless" traveling blanket (C), which is pressed against the coat of fibres by what is known as the "couch roll," (D), and this causes the pulp to stick to the blanket.

As the pulp is taken from the cylinder by this blanket, it becomes a continuous sheet of roofing felt, but which is still saturated with water. From this point the sheet is carried by the blanket through a series of heavy press rolls (E) which squeeze most of the remaining water from the felt. After leaving the press rolls, the sheet of felt is strong enough to carry its own weight and is led from the wet end of the machine over a series of huge steam heated revolving drums, or rolls (G). This process dries out the remaining moisture from the felt, and it emerges at the other end soft and dry, ready for the subsequent process of saturating and coating.

The calendar rolls (H) give the felt as smooth a finish as may be desired. It is then rolled into bolts (I) and cut by revolving slitters (J) into sheets 32 or 36 inches in width, and automatically wound into rolls of finished felt on the winders at the extreme right.

These felt machines are of immense size and great length, and the buildings in which they are installed usually measure a full city block. The greatest expense in the manufacture of roofing is in the making of felt. In this respect we have an enormous advantage, because all the felt used for our roofing is made in our own mills and completed into roofings on the same premises; consequently, no profit is paid to the felt maker and no freight from his mills, and this

reduces the cost of our production, and the selling price is therefore brought down to a reasonable basis.

In the next step the felt is saturated with our own blend of soft asphalts. In this room (Fig. 7) the felt passes over rolls through tanks of properly blended asphalts, and when it emerges it goes through heavy steam-heated pressure rolls, which act to drive in the maximum amount of saturation. The process of saturating the felt is of the utmost importance, as the life of the roofing depends upon how thoroughly this is done.

We have found that "roofs don't wear out—they dry out." This principle was established by us after thorough investigation, experimentation, and actual tests on the roof, and applies to all forms of "prepared," or "ready" roofings, including those saturated with asphalt, tar, or so-called "animal and vegetable oils and compounds."

After the felt has been thoroughly saturated it is put through a coating machine. This applies the outer or wearing surface, which hermetically seals the inner saturation—the life of the roofing—and forms a protecting surface. This asphalt coating is composed of the same materials as are used in saturating the felt, except that it is of a harder consistency.

As the coated sheet emerges from the machine, automatic processes surface the roofing with a fine talc, which prevents sticking when rolled up.

After the fine talc has been applied, the sheets are carried on conveyors to the other end of the room (Fig. 8), where they are carefully

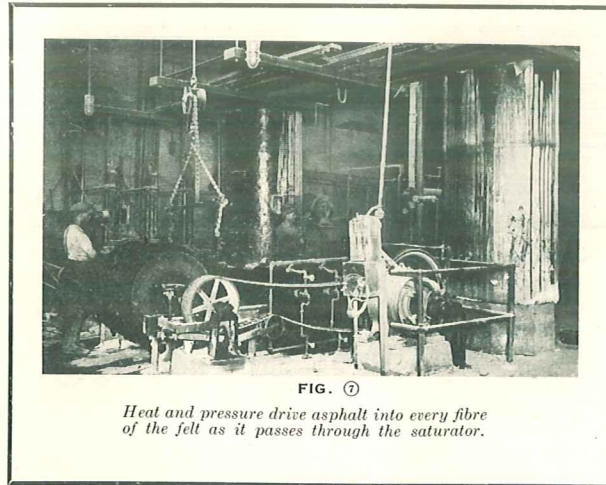


FIG. ⑦

Heat and pressure drive asphalt into every fibre of the felt as it passes through the saturator.

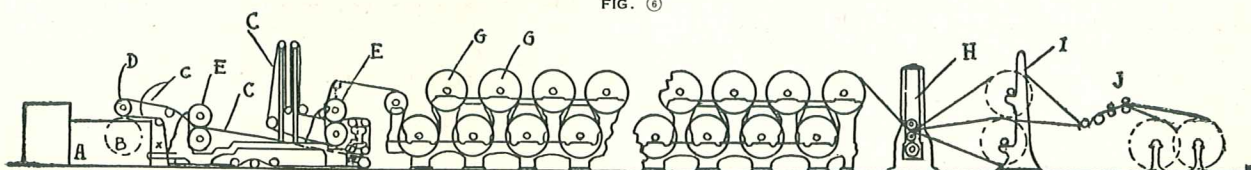


FIG. ⑧

Cross sectional diagram of felt machine. The pulp entering at one end emerges at the other as finished felt.



FIG. 8

The finished roofing, measured and cut off automatically, is wound into rolls.



FIG. 9

Row upon row the roofing awaits shipment to all parts of the world.

inspected. All inferior and imperfect material is removed to be sold as "seconds," or lower-quality goods. The finished roofing is then wound into single or double rolls, the former containing 108 sq. ft., and the latter 216 sq. ft. In this process the rolls are measured and cut off automatically, thus insuring uniformity and full measure in every roll.

After the rolls are taken from the machine, they are

wrapped and capped, after which they are sent to the packing room, where their weights are checked and the label applied. They are then sent into the Shipping Room ready for shipment.

Figure 9 shows one of our Shipping Rooms, and gives some idea of the vast space necessary to store the huge production of our goods. Here is where they await shipment to all parts of the world.

The Difference Between Coal Tar and Asphalt

Coal Tar This is a by-product of gas works and coke ovens, and is driven out of the coal as a gas; then as the gas cools the tar is condensed into a liquid form. It is of a gaseous origin and dries out too quickly. For this reason tars have been practically discarded in our search for the best material to use.

Asphalts *No Asphalt is suitable for use in the condition in which it is found.* Trinidad Asphalt has been the best known, because most of us have read about it in our geographies and in books of travel. This deposit is on the Isle of Trinidad, a British possession in the West Indies. It has about 45 per cent fine earthy matter, due to its working up from the interior of the earth through a sand-bed, and the fine sand or earthy matter works throughout the material. A solution of salt in the water that flows around and through it also permits a salt to work into the asphalt, and this salt, being soluble in water, has a tendency to cause disintegration when water stands on it for any length of time. This earthy matter and salt are not sufficiently removed in the process of refining.

Other asphalts are less known to the general public because their names have not been in the geographies and have not been advertised. These asphalts are found generally throughout the world. Instead of being limited in supply, as has been thought at times, tremendous quantities have been found, and it has also been learned that the best product comes of the proper selection of these asphalts and a proper blending of them, having a full knowledge of the work to be accomplished by the finished product.

Asphalt is not an artificial product. It is always a natural product. It is found in hard, soft and liquid forms

in the earth. The only difference is that the natural distillation in the earth has been carried on farther as the material is found in the harder conditions. The very hardest grades are those that have been dried out from the internal heat of the earth in ages gone by. When this distillation is not completed in the earth it can be done in stills by man in just the same way, and the residue is asphalt—a natural product. No artificial product has been created by this process—only the lighter materials have been driven off. It is sometimes urged that Nature does this work better than man. This is untrue. Too high heat is objectionable in either case, and Nature may have used extreme heats the same as the careless refiner. The best product is where proper knowledge and careful work are used in securing the result, and man with his thermometer and with care does this better than Nature and gets a more uniform product. *All asphalts hardened by natural drying out in the earth require blending and treatment before using.*

We have a board of expert chemists who give their entire time to the work of blending asphalts in proper proportions to secure maximum life for roofing purposes, and our present *Certain-teed* products are the result of a quarter-century of experience in mining, refining and blending asphalts, and manufacturing them into finished products. It is because of this thoroughly tried and tested knowledge and experience that *Certain-teed* Roofing will give the most satisfactory and longest service.

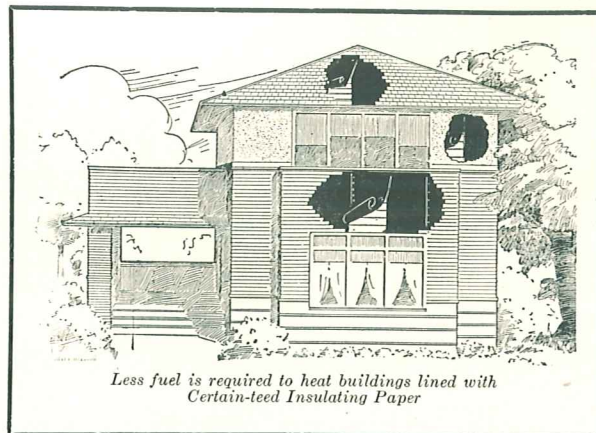
Some asphalt mixtures have failed, due mostly to the lack of knowledge of the users, but also in many cases to attempted economies, resulting in the use of the wrong material. While *Certain-teed* products are blends of asphalts, they are very different in lasting qualities, if not in looks, from other products offered on the market.

Certain-teed

***Insulating Paper**

(BLACK)

Tough — Durable — Waterproof



THIS is a high-grade Insulating Paper which is both saturated and coated with our special blend of *Certain-teed* Asphalts. It is a strong, durable sheet and is vastly superior to ordinary sheathing and other insulating paper. It is now recognized by leading architects and engineers as the best material for lining buildings of all kinds. *Certain-teed* Insulating Paper gives a much longer service than sheathings which are not saturated or those saturated with coal tar. It acts as an insulator against heat and cold and prevents moisture from penetrating the walls. The comparatively small additional outlay necessary for sheathing a house with this paper will pay for itself in the course of one winter season by the saving of fuel consumption; the increased protection against heat in the summer time is of special importance in districts where the summer seasons are extremely hot.

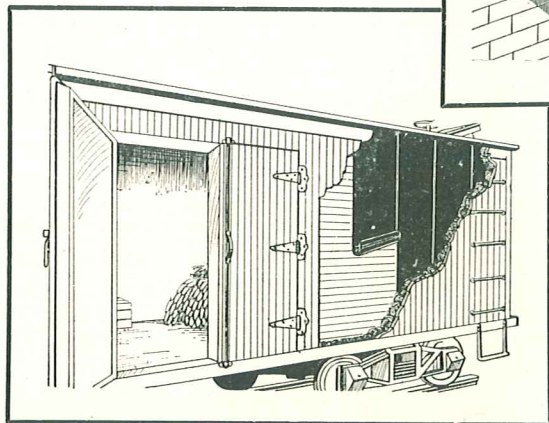
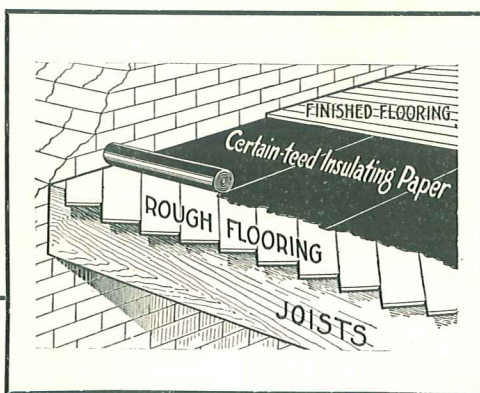
Certain-teed Insulating paper is especially adaptable for damp-proofing between the sub-floor and the finished floors for packing houses, breweries, chemical plants,

mercantile buildings, dairies, creameries, residences, etc. In case of fire, it prevents water from leaking through upper floors to the lower part of the building, and thereby saves valuable goods from damage.

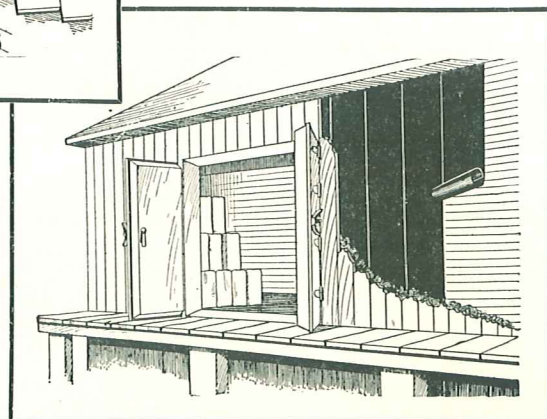
Certain-teed Insulating Paper is suitable for lining refrigerators, refrigerator cars, ice houses and cold storage buildings; as it is odorless and tasteless it cannot affect food products which are being stored or shipped.

Goods shipped by water, likely to be affected by moisture, should be packed in boxes lined with *Certain-teed* Insulating Paper. This will prevent moisture from damaging the goods even in the longest voyage by sea.

Certain-teed Insulating Paper is admirably adapted for lining freight cars in which grain, flour or similar products are shipped. Dampness and moisture resulting from heavy rains or snows cannot penetrate the cars when lined in this manner, and many dollars have been saved by the expenditure of a small sum to protect the goods.



These illustrations show a few of the many uses of Certain-teed Insulating Paper.



*Detailed sizes, weights and packing schedule shown on pages 20 and 21.

Certain-teed

*Water-proofing and Damp-proofing Materials

IT is of utmost importance that floors and basement walls of all buildings be rendered absolutely water-proof and damp-proof. Nearly every building requires a specification to meet its peculiar condition. If only natural seepage is to be contended with and the buildings stand on good, firm earth, we recommend laying one, or possibly two sheets of *Certain-teed* Dampcourse or *Certain-teed* Roofing. This prevents moisture from rising above the level (A, Cut No. 1). The top of the foundation should be damp-proofed in the same way (B, Cut No. 1). Then before the earth is filled in, the entire foundation walls should be coated on the outside from the footings to grade line by applying a uniform coat of *Certain-teed* Asphalt Cement. This method should be employed where walls are rubble masonry. (C, Cut No. 1.)

Where foundation walls are to be made of concrete, the footings should be water-proofed by applying one or two layers of *Certain-teed* Dampcourse or *Certain-teed* Roofing before the foundation wall is built (A, Cut No. 2). After this wall has been erected, and before the earth is filled in, one or two layers of *Certain-teed* Roofing should be cemented to the exterior face of the wall with *Certain-teed* Asphalt Cement (B, Cut No. 2), and cemented to water-proofing of footings (C, Cut No. 2).

To prevent dampness from drawing up into brickwork, a layer of *Certain-teed* Dampcourse or *Certain-teed* Roofing should be placed over the top of the foundation wall (D, Cut No. 2).

Concrete basement floors can be thoroughly water-proofed by laying two thicknesses of *Certain-teed* Roofing on top of the concrete sub-floor, or cinder fill, as the case may

be (E, Cut No. 2). They should be lapped 17 inches and thoroughly cemented together with *Certain-teed* Asphalt Cement. When this is being done, care should be taken to connect this water-proofing with the *Certain-teed*

teed Dampcourse or *Certain-teed* Roofing which is on top of the footings, (F, Cut No. 2); these two should be cemented together and connected with the roofing which covers the exterior face of the foundation wall (C, Cut No. 2), thus water-proofing the entire basement. This method is

also used with excellent results on top of cinder concrete fill where the finished floor is to be made of wood. Over this water-proofing course the finished floor should be laid.

Good results can be obtained by the use of *Certain-teed* Asphalt Felts instead of *Certain-teed* Roofing for all water-proofing and damp-proofing purposes. When specified for this purpose *Certain-teed* Asphalt Felts should be applied in the same manner as *Certain-teed* Roofing. For water-proofing and damp-proofing buildings of less cost, *Certain-teed* Tarred Felts are frequently specified and when used should be applied in the same manner as *Certain-teed* Roofing, except that hot pitch should be employed instead of *Certain-teed* Asphalt Cement. Where this method of

water-proofing is used most extensively, our materials have proved to be of superior merit.

As *Certain-teed* Dampcourse, *Certain-teed* Roofing and *Certain-teed* Asphalt Felts are not only water-proof and damp-proof, but also acid-proof and odorless, it is the opinion of our experts that they are superior to other materials for the purposes designated.

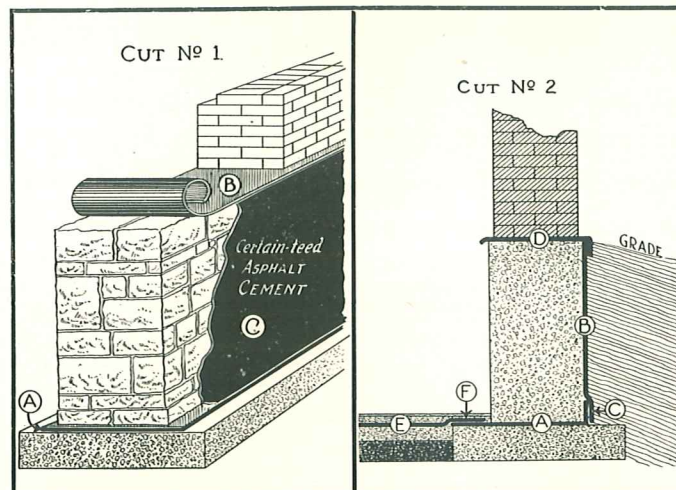
For merely damp-proofing purposes or light water-proofing, we recommend *Certain-teed* Insulating Paper.

Certain-teed Dampcourse

Rolls 72 ft. Long

W I D T H S

4 -inch	9 1/2 -inch	23 -inch
4 1/2 -inch	14 -inch	27 1/2 -inch
9 -inch	15 3/4 -inch	36 -inch



*Detailed weights, sizes and packing schedule shown on pages 20 and 21.

Certain-teed

*Asphalt Felt

THIS is made of long fibred felt which is thoroughly saturated with our special blend of *Certain-teed* Asphalts, thus preventing evaporation and disintegration for the longest period of time.

Certain-teed Asphalt Felt is used extensively under slate, tile and other roofing materials requiring a water-proof liner. It has many advantages over ordinary lining materials or those which are saturated with coal tar. We recommend No. 1 (20 lbs. to 100 sq. ft.) for lining.

Certain-teed Asphalt Felt is rapidly superseding tarred felt (sometimes called tar paper) for built-up roofs. For such purposes we recommend No. 2 and No. 3. Several layers of *Certain-teed* Asphalt Felt, properly cemented together with our asphalt cement, and built up in accordance with our specifications, result in a roof construction of superior merit for high-class buildings.

Certain-teed Asphalt Felt is splendidly adapted for sheathing purposes, especially where heavy and permanent insulation is required. It insulates a house against heat and cold, and being absolutely waterproof, forms an excellent protection against moisture. It is also vermin-proof.

It is frequently used for water-proofing and damp-proofing purposes, as explained on page 10, but where the best results are expected we recommend the use of *Certain-teed* Roofing.



Certain-teed

*Deadening Felt

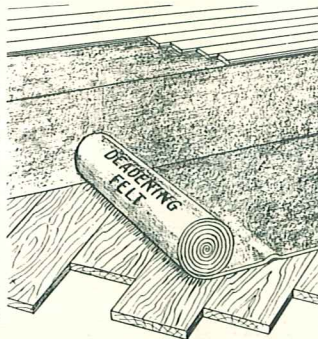
THIS is a thick, soft felt made from rags. When laid between floors and between walls it constitutes an effective insulation against sound. This is of much benefit to those residing in apartment buildings, and to patients in hospitals and sanitariums where sound insulation is practically imperative.

When laid under hardwood floors, deadening felt makes a cushion which acts as an insulator against heat and cold, as well as against sound. Annoyance and embarrassment may be avoided by insulation of this kind. Deadening Felt is also extensively used as a carpet liner, thereby increasing the wearing qualities of the

rugs and carpets. Its use in this manner also improves the sanitary condition of the floors, as it prevents dust and dirt from sifting through.

In unplastered houses Deadening Felt is frequently applied to the walls and sidings as a backing for wall paper.

The accompanying illustration shows the manner in which deadening felt should be laid between floors.



Certain-teed

*Tarred Felt

(Supplied Only from New York Export Department)

THIS is popularly referred to as "tar paper" but the *Certain-teed* brand consists of rag felt, thoroughly saturated with coal tar. It is in every way up to the standard, and is recommended by all good architects.

Certain-teed Tarred Felt is principally used in built-up roofs of felt, pitch, and gravel No. 2 or 3 being usually specified. As well seasoned felt is essential for this purpose, particular care is exercised to ship only well-seasoned material under the *Certain-teed* label.

Certain-teed Tarred Felt is also used for sheathing residences, store buildings, and similar structures, and while superior to ordinary rosin-sized sheathing for this purpose, it is not as good as *Certain-teed* Asphalt Felt.

Stringed Felt is most commonly used for lining purposes, because, being much lighter, it costs less. Strings or threads, imbedded in the felt, tend to strengthen it. Slaters' Felt is still lighter but is made wider. It is used under slate and tile when an asphalt lining is not specified.



Certain-teed

*Sheathing Paper

THIS paper is widely used for sheathing and lining buildings in which low cost is of chief importance. It is often employed to spread over hardwood or tile floors to prevent marking when workmen are repairing or moving. As a lining for freight cars, crates, boxes, and barrels, it saves the contents from dirt and marks. Under pitch and tar roofs, laid next to the roof board, it prevents the pitch, which melts in hot weather, from dripping through.

As stated on page 9, sheathing paper of this type is rapidly being replaced by *Certain-teed* Insulating Paper, which is a much more permanent and satisfactory material for sheathing purposes.



Certain-teed

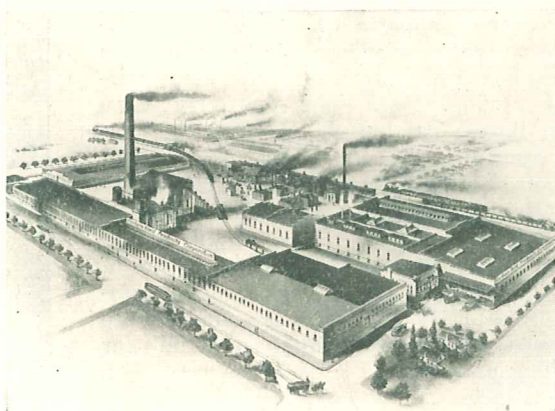
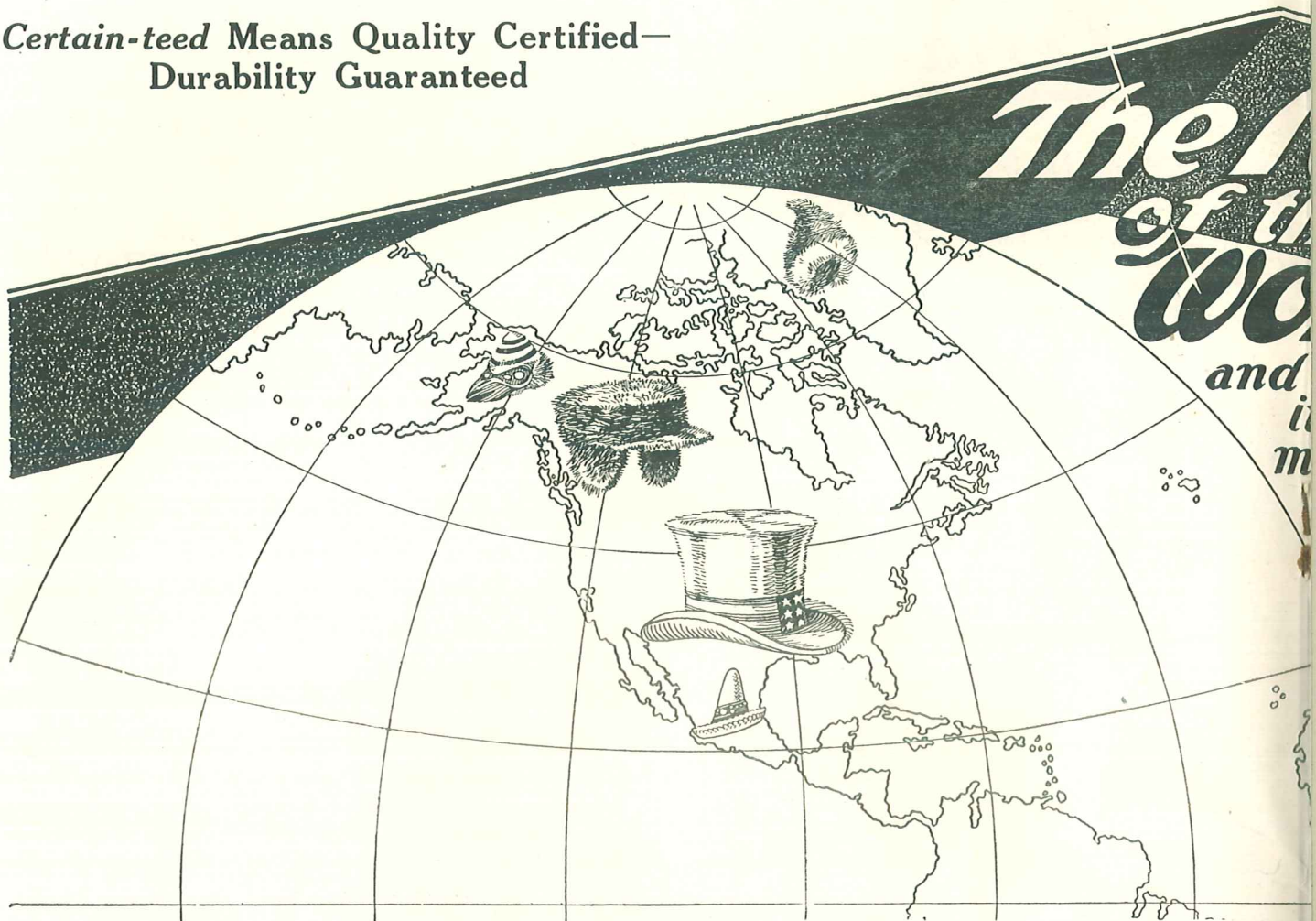
*Plaster Board

WHERE a heavy sheathing is desired at a comparatively small expense, we recommend this Plaster-Board. It is made of paper stock. Because of the extra weight it is superior to rosin sheathing. In rough shacks and temporary buildings or lightly constructed shelter houses for poultry and the like, this Plaster-Board tacked on the walls keeps out the cold draughts and thus makes such quarters more comfortable and healthful.

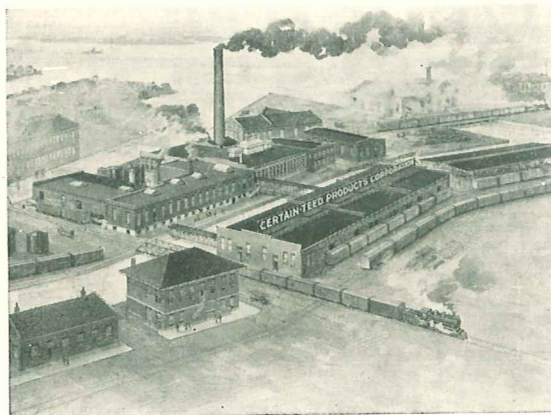


*For detailed sizes, weights and packing schedule, see pages 20 and 21.

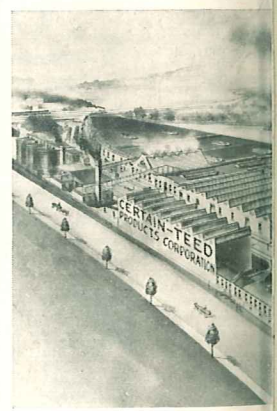
**Certain-teed Means Quality Certified—
Durability Guaranteed**



Plant No. 1—East Saint Louis, Illinois, U. S. A.



Plant No. 2—Marseilles, Illinois, U. S. A.



Plant No. 3—York, P

THROUGHOUT the world *Certain-teed* Products are demanded because of their unfailing certainty of extra quality, uniformity, satisfaction and economy.

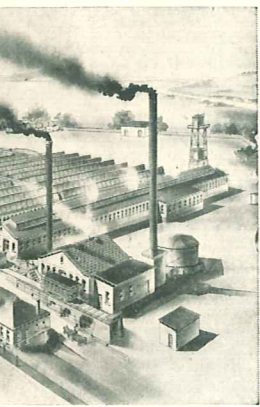
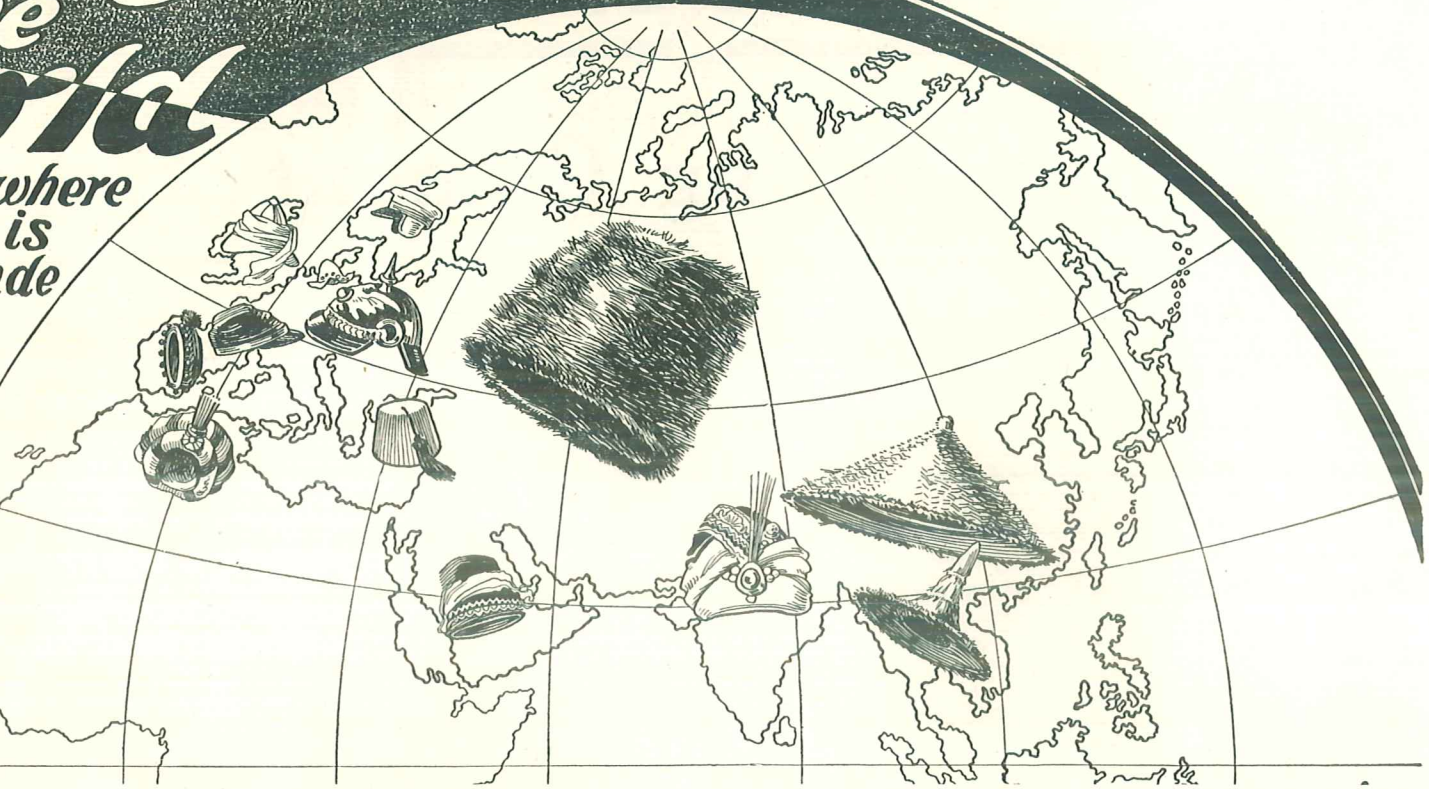
Large scale production and distribution make *Certain-teed* Products easily and quickly obtainable in any part of the world.

**Roofing, Paint, Varnish and Related Building Products
For Every Purpose**

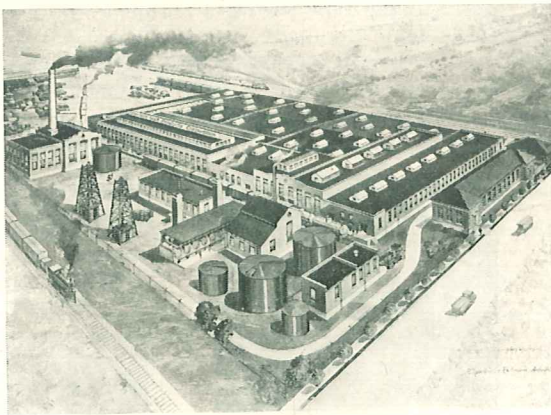
Roofs Don't Wear Out—
They Dry Out

Roof
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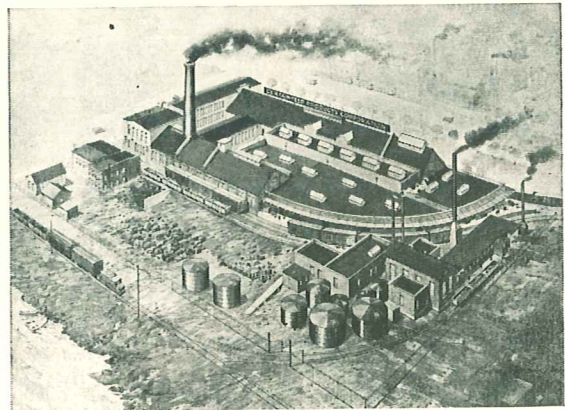
where
is
de



sylvania, U. S. A.



Plant No. 4—Richmond, California, U. S. A.



Plant No. 5—Niagara Falls, New York, U. S. A.

Certain-teed
Roofing

Certain-teed

*Plastic Roofing Cement

THIS is an absolutely waterproof, weatherproof and durable cement, in plastic form, and is applied with a knife or trowel, the same as putty. The cement remains plastic after it has been applied, sets slowly and forms a firm surface which does not become brittle with age.

Certain-teed Plastic Roofing Cement is a combination of asbestos with specially prepared and carefully selected liquids derived from a bituminous base. These liquids and the asbestos fiber are thoroughly mixed and combined by the use of heavy and powerful machinery especially designed by this Company



Bothersome leaks around chimney flashings can be permanently repaired.

for the purpose. Our product is, therefore, of a smooth and even texture, a most desirable feature in this material. It is ready to use without treatment or mixing of any kind, and it will adhere to any kind of surface—wood, metal, tile, concrete, brick, stone or slate. In order to insure the best results, we recommend that the surface be dry before the cement is applied. It resists gases, fumes, acids, sparks, as well as the various atmospheric agencies.

Certain-teed Plastic Roofing Cement can be used for so many purposes that it is impossible to enumerate all of them. A few of the most common uses for this cement will be described.

As shown in the illustration, it can be used to waterproof flashings around chimneys, etc. The most troublesome part of making a roof absolutely water-proof can be eliminated by liberal use of plastic cement applied with a trowel over the edges of flashings. It can also be used around pumps to prevent waste water from running back



Rusted valleys and gutters can be readily made serviceable and watertight.

into the well or cistern. For pointing up around chimneys, for repairing gutters, valleys, down-spouts and drains, this cement insures absolute waterproofing. It can also be used to advantage for stopping leaks in buckets, water troughs and for sealing cracks and crevices of all kinds.

Certain-teed Plastic Roofing Cement when applied to boiler settings about one-eighth of an inch thick prevents outside air from seeping through and thereby conserves the heat unit and results in more power. As the cement is also absolutely water-proof, it prevents moisture from being drawn into the brick and thereby increases its life. The cement is also elastic and is not affected in any manner by gases, acids or fumes.

Shingle, metal and composition roofs can be easily and quickly repaired on a moment's notice with *Certain-teed* Plastic Roofing Cement. It can also be used to advantage in repairing cracked skylights on greenhouses, office buildings, and other structures where skylights are used.

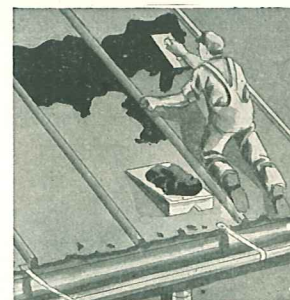
This cement is handy to keep around the house to provide for emergencies such as seepage in basements from hard rains, and suddenly developed leaks in roofs. It is totally unaffected by water; it



Foundations can be permanently waterproofed and dampproofed.

cannot freeze and it has extraordinary power of resistance to the action of the sun.

Certain-teed Plastic Roofing Cement requires about 25 lbs. to cover 100 sq. ft. of surface when laid 1-16 of an inch thick. It is recognized as one of the lightest and most sanitary roofing cements on the market. It is put up in the following packages and weights:



Additional service can be secured from worn and corroded metal roofs.

*For detailed weights and packing schedules see pages 20 and 21.

Certain-teed

Extra Quality

*Paints and Related Products

(Regular Pack—U. S. A. Standard Measure)

ALL raw materials entering into the manufacture of Certain-teed Paints are carefully analyzed and passed upon by our board of expert paint chemists before being accepted as standard for use in Certain-teed Paints. Frequent tests are made during the processes of manufacture so as to maintain consistently the established standard of quality. The finished products are exposed to actual wearing conditions on large test boards. There are clearly defined reasons for the use of all ingredients and for the percentages they represent in the finished products. These reasons are confirmed by years of research and practical tests on the part of men actively engaged in the production of Certain-teed Paints.

CERTAIN-TEED HOUSE PAINTS

FOR painting the exteriors and interiors of both old and new buildings, where the best of service is required. *Certain-teed* House Paints offer maximum protective and decorative value. They possess excellent working qualities, great hiding power, durability, uniformity and permanency of colour. Note the analysis of No. 448 Outside White House Paint. *Certain-teed* House Paint is made on a lead-zinc-linseed oil base. Covering capacity about 350 sq. ft. per gallon, two coats. Made in twenty-four excellent shades in addition to Inside White, Outside White and Black. Put up in one gallon and one quart size cans.

CERTAIN-TEED PORCH AND DECK PAINT

A PAINT of the same excellent quality as *Certain-teed* House Paint. Especially made to withstand the hard usage to which it is subjected on porch floors, decks of boats and other like surfaces. Covering capacity about 300 to 350 sq. ft. per gallon, two coats. Made in a variety of shades and put up in one gallon and one quart size cans.

CERTAIN-TEED INSIDE FLOOR PAINT

FOR use on interior floors, stairs, etc. Will withstand hard usage and may be repeatedly washed. Covering capacity about 250 to 300 sq. ft. per gallon, two coats. Made in a variety of desirable shades and put up in one gallon and one quart size cans.

CERTAIN-TEED VARNISH STAIN FOR FLOORS, FURNITURE AND WOODWORK

STAINS and varnishes at one operation, producing natural hardwood effects. Possesses the best of wearing qualities. Does not scratch white or show heel marks, or "bloom" when subjected to moisture. Satisfactory for use on both floors and furniture. Covering capacity about 200 to 250 sq. ft. per gallon, one coat. Made to imitate a variety of finishes, including Mahogany, Walnut, Cherry and various Oaks. Put up in one gallon, one quart, one pint and half-pint size cans.

CERTAIN-TEED SCREEN PAINT

A HIGH grade product for painting both the woodwork and wire mesh of fly screens. Will not clog the mesh. Made in Black and Green. Put up in quart, pint and half-pint size friction top cans.

CERTAIN-TEED FLAT WALL PAINT

WASHABLE, sanitary, germ-proof paint for producing artistic effects on interior walls and ceilings of wood, wall-board, plaster, metal, burlap or canvas. Dries with a beautiful velvety mat finish. Covering capacity, one coat, about 700 to 800 sq. ft. on smooth plaster. About 500 to 600 sq. ft. per gallon on rough plaster. Made in white and sixteen artistic shades and put up in one gallon and one quart size cans.

CERTAIN-TEED WALL SIZE

A VARNISH Size for use on walls not previously painted, as an undercoat for *Certain-teed* Flat Wall Paint. Covering capacity over smooth surfaces, about 400 sq. ft. per gallon. Put up in one gallon and one quart size cans.

CERTAIN-TEED SNOW WHITE ENAMEL

FOR the highest grade finish on woodwork, metal or plasters. Works easily and flows out round and full, free from brush marks and sags. Dries to a hard, lustrous, waterproof film. Covering capacity about 450 sq. ft. per gallon, one coat. Put up in one gallon, one quart, and one-half pint size cans.

CERTAIN-TEED BATH ROOM ENAMEL

PRODUCES a white porcelain-like finish that withstands hot or cold water. Intended for use on either old or new surfaces, such as walls of bath rooms, zinc or iron tubs, inside and outside of refrigerators, etc. Covering capacity about 450 sq. ft. per gallon, one coat. For best results on new surfaces, use *Certain-teed* Enamel First Coater, as an undercoat for *Certain-teed* Bath Room Enamel. Put up in one quart and one-half pint size cans.

CERTAIN-TEED INTERIOR ENAMEL

GENERAL purpose enamel for finishing or refinishing interior woodwork, iron beds, furniture, picture frames, etc. Made in Black and White Flat and Gloss Finish, and in eight Gloss Finish shades. Put up in one gallon, one quart and one-half pint size cans.

CERTAIN-TEED ENAMEL FIRST COATER

MADE in white only. For use as an under coater for whites and light tints of enamel of all kinds. Put up in gallon, one quart and one-half pint cans.

CERTAIN-TEED PORCH FURNITURE ENAMEL

INTENDED for use where articles coated are subjected to weather exposure. Dries hard and does not soften under heat from body. Made in Red and Green and put up in one quart and one-half pint size friction top cans.

CERTAIN-TEED GOLD PAINT

WASHABLE, durable, brilliant. Suitable for ordinary household use as well as for the professional decorator. Dries very quickly. Put up in cartons containing one dozen packages each. Medium size packages contain $\frac{1}{2}$ oz. gold powder and $1\frac{1}{4}$ fl. oz. of liquid. Small size packages contain $\frac{1}{4}$ oz. gold powder and 1 fl. oz. of liquid.

CERTAIN-TEED ALUMINUM PAINT

FOR picture frames, radiators, stove pipes, boilers, plumbing, etc. Withstands heat and repeated washing. Put up in one pint and one-half pint size friction top cans.



Certain-teed Extra Quality Paints and Varnishes are put up only in cans bearing the genuine Certain-teed label.

ANALYSES

Certain-teed

No. 448—OUTSIDE WHITE HOUSE PAINT

Pigment.....	65		
Vehicle.....	35		
	100%		
Pigment		Vehicle	
Basic Lead Carbonate.....	49.81	Refined Linseed Oil.....	\$6.24
Basic Lead Sulphate.....	10.91	Turpentine.....	5.70
Oxide of Zinc.....	29.12	Japan Dryer.....	8.06
Magnesium Silicate.....	6.97		
Silica.....	3.19		
	100.00%		100.00%

Weather-Shield

No. 298—OUTSIDE WHITE HOUSE PAINT

Pigment.....	58		
Vehicle.....	42		
	100%		
Pigment		Vehicle	
Basic Lead Carbonate.....	20	Refined Linseed Oil.....	65
Lead Sulphate.....	7	Japan Dryer.....	7
Zinc Oxide.....	13	Mineral Spirits.....	13
Magnesium Silicate.....	19	Varnish.....	10
Barium Sulphate.....	20	Water.....	5
Calcium Carbonate.....	21		
	100%		100%

NOTE. It is not advisable to carry paint and varnish in containers larger than five gallons unless you have immediate sale for same.

*For approximate weights, sizes, etc., see page 22.

CERTAIN-TEED STOVE AND PIPE ENAMEL

ADENSE and glossy black. Intended for use on stove and ranges; also on stove pipes, coal hods, grates, radiators, registers, and on gas, water or steam pipes. Easily applied, dries quickly and withstands heat. 20 oz. size, $\frac{1}{4}$ dozen in carton; 11-oz. size, 1 dozen in carton; 5-oz. size, 1 dozen in carton.

CERTAIN-TEED AUTO TOP AND SEAT DRESSING

FOR refinishing in black and waterproofing automobile and carriage tops, seats and upholstery. For use on either leather or mohair. One quart sufficient for the average top. Put up in one quart and one pint size friction top cans.

CERTAIN-TEED WAGON AND IMPLEMENT PAINT

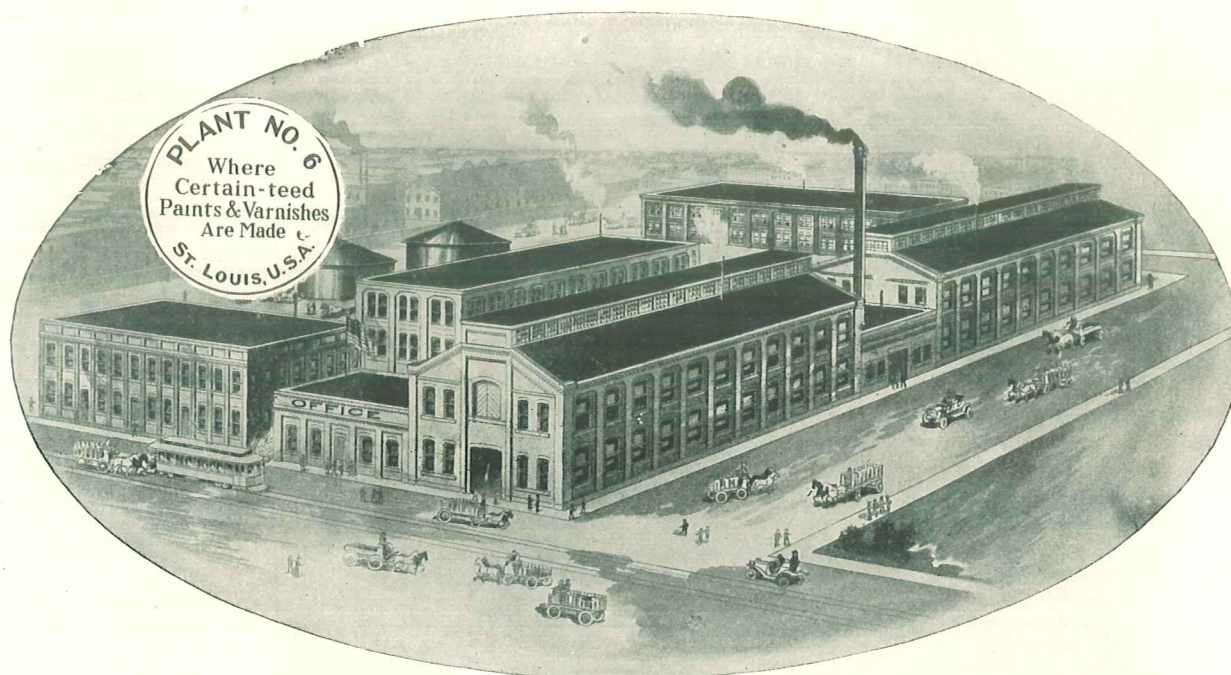
FOR refinishing and brightening up wagons and implements which have become worn and dingy. Resists rust and prevents damage by rain and snow. Dries overnight. Made in Black, Yellow, Red and Green and put up in one gallon, one quart and one pint size cans.

CERTAIN-TEED BARN, BRIDGE AND ROOF PAINT

AN exceptional value for the purposes designated and far superior in quality to most paints sold under the name of Barn Paint. For out-door purposes only. Colors: Slate, Dark Red, Bright Red and Green. Put up in one gallon and five gallon size cans and in barrels of approximately 50 gallons.

CERTAIN-TEED GRAPHITE PAINT (BLACK)

ASUPERIOR article made of high-grade graphite, linseed oil and japan drier, for iron bridges, metal roofs, smoke stacks and all other exterior metal surfaces. Withstands heat. Covering capacity about 300 to 350 sq. ft. per gallon. Put up in one and five gallon size cans and in barrels of approximately 50 gallons.



CERTAIN-TEED AUTO BLACK ENAMEL

AN excellent article for repainting or retouching metal work on automobiles, such as fenders, radiators, springs, lamps, etc., as well as on any other metal surfaces where a high finish is desired. Put up in one quart and one-half pint size friction top cans.

CERTAIN-TEED AUTO AND CARRIAGE PAINT

AHIGH grade finish for automobiles, buggies, motor lorries, tractors, fine wagons, sleighs, gasoline engines, dynamos, motors, separators and exposed metal or woodwork where a high-gloss finish is desired. Strong, brilliant colors ground to extreme fineness in special auto and carriage varnish. Made in Black, Red, Gray, Yellow and Green, and put up in one quart, one pint and one-half pint size friction top cans.

CERTAIN-TEED BLACK CARBON PAINT (Coal Tar Base)

AMEDIUM grade black paint for use on exterior metal surfaces, such as bridges, metal roofs, smoke stacks, etc. Withstands heat. Covering capacity about 300 sq. ft. per gallon. Put up in one gallon and five gallon size cans and in wooden barrels of approximately 50 gallons.

CERTAIN-TEED METAL PAINT

AN asphalt product for use on exterior metal surfaces, such as bridges, metal roofs, smoke stacks, etc. Withstands heat. Dries in about six hours. Covering capacity about 300 sq. ft. per gallon. Put up in one gallon and five gallon size cans and in wooden barrels of approximately 50 gallons.

CERTAIN-TEED SHINGLE STAINS

ACREOSOTE product, for preserving and beautifying natural shingles and wooden siding. "Creosote," says Webster's Revised Unabridged Dictionary, "Is remarkable as an antiseptic and deodorizer in the preservation of wood. We manufacture our own creosote oil, thus insuring uniformity of product. Put up in one gallon and five gallon size cans and in wooden barrels of approximately 50 gallons.

CERTAIN-TEED WOOD PRESERVATIVE

MADE from creosote of our own manufacture—a wood preservative for use on all outdoor and underground work. Put up in one gallon and five gallon size cans and in wooden barrels of approximately 50 gallons.

CERTAIN-TEED LIQUID BLACKBOARD SLATING

FOR use in schools, academies, lecture rooms, laboratories, etc. Produces a rich, flat black surface which is smooth and washable. Makes chalk marks stand out boldly and may be easily cleaned with erasers. Covering capacity about 500 sq. ft. per gallon, one coat. Put up in one gallon and one quart size cans.

CERTAIN-TEED MILL WHITE

APAINT for the interior walls and ceilings of factories, shops, warehouses, stores, dairies, bakeries, etc., where maximum light is required. Washable, sanitary, germ-proof. White when applied and stays white in use. In no sense a water paint. No. 491 Flat is recommended for use as a first-coater under No. 492 Gloss.

Covering Capacity per Gallon

No. 491 Flat.....300 to 400 sq. ft.—400 to 500 sq. ft.
No. 492 Gloss.....300 to 500 sq. ft.—500 to 600 sq. ft.
Put up in five gallon size cans and in barrels of approximately 50 gallons.

CERTAIN-TEED KALSOMINE

FOR use on interior walls and ceilings where economy of first cost is the greatest consideration. An artistic, durable and economical paint in dry powder form, ready for use when mixed with either hot or cold water. The contents of a five-pound package when mixed with water make enough liquid coating to cover from 400 to 500 sq. ft. over smooth plaster, one coat. Made in white and eight beautiful shades and put up in five-pound cartons packed twenty to the case; in one hundred-pound wooden drums and in barrels of approximately 350 pounds.

CERTAIN-TEED CEMENT FLOOR PAINT

AHARD-WEARING surface paint for cement floors. Retards dusting of the surface. Sanitary, easy to clean, and makes cement floors last longer and give better service. Covering capacity about 500 sq. ft. per gallon, one coat. Made in various appropriate shades and put up in one gallon and one quart size cans.

CERTAIN-TEED STUCCO AND CEMENT PAINT

FOR use on stucco and cement work, concrete abutments, brickwork, terra cotta, etc. Decorative and impervious to moisture. Brings out immediately the full beauty of stucco which otherwise is acquired only with the passing of time. Prevents dampness in walls, and minimizes streaking from soot and dirt. Covering capacity about 150 to 300 sq. ft. per gallon, two coats. Made in six widely used stone colors and white and put up in one gallon and one quart size cans.

CERTAIN-TEED MASTER PAINTERS' COLORS IN OIL

MADE of pure, strong pigments ground to the last degree of fineness in pure linseed oil. These high-grade colors may be relied upon for perfect tone and strength of color. Blacks, Blues, Browns, Greens, Ochres, Reds, Vermilions, Yellows and Graining Colors. Put up in 1-pound, 5-pound, 12 $\frac{1}{2}$ pound and 25-pound cans.

CERTAIN-TEED ZINC WHITE IN OIL

ASTRICTLY pure zinc oxide of highest quality ground in pure refined linseed oil. Used by practical painters either as a single pigment or in combination with lead in oil. Put up in 25-pound and 12 $\frac{1}{2}$ -pound packages.

CERTAIN-TEED ZINC WHITE IN VARNISH

ASTRICTLY pure zinc oxide of highest quality ground in pure Damar Varnish. Put up in 25-pound and 12 $\frac{1}{2}$ pound packages,

Certain-teed

*Varnishes, Wood Fillers, Polishes, Etc.

THE Certain-teed line of varnishes includes a well-chosen selection for architectural and industrial uses and for use on business and pleasure vehicles. All Certain-teed Varnishes are made to give service. Extensive manufacturing and storage facilities, high-quality standards, ample resources and the most competent technical skill available, combine to make them the best that can be manufactured. The Certain-teed label on any product means—Quality Certified by the Manufacturer—Your Satisfaction Guaranteed.

A UNIVERSAL VARNISH

FOR all exterior and interior purposes. When ordering specify No. 900. Successfully meets "freak" tests such as hammering, scalding, soaking, freezing, and bending, but meets best of all, the test of actual usage. Dries dust free in about three hours. Put up in one gallon, one quart and one pint size cans.

CERTAIN-TEED FLOOR VARNISH

A HIGH grade varnish in every respect. May be washed with hot or cold water and soap. *Certain-teed* Floor Varnish dries dust free in three hours, and dry enough over night to be walked upon, yet possesses the necessary elasticity so that it does not scratch or mar. Put up in one gallon, one quart and one pint size cans.

CERTAIN-TEED OUTSIDE SPAR

A PALE, extremely durable, highly lustrous varnish for all outside purposes, such as store fronts, outside doors, marine work, and similarly exposed surfaces. Flowing, working, and wearing qualities unsurpassed. Put up in one gallon, one quart and one pint size cans.

CERTAIN-TEED LINOLEUM VARNISH

BRIGHTENS the surface and increases the years of service of the linoleum on which it is used. Does not in any way affect or change the colour of the linoleum. *Certain-teed* Linoleum Varnish is very light in color and may be used to advantage on maple floors. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED INTERIOR SPAR

THIS is a high-grade interior varnish for general use. It is not affected by contact with water. *Certain-teed* Interior Spar has a fine, durable and permanent gloss which can be rubbed to a dull finish and polished if desired. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED LIGHT HARD OIL FINISH

THIS name is too frequently applied to varnish of rather indifferent quality, but *Certain-teed* Light Hard Oil Finish is a good varnish where an extremely hard finish coat is desired on inside woodwork or furniture. It is a lustrous varnish which can be rubbed and polished, if desired. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED No. 1 FURNITURE OR COPAL

A HIGH grade, quick-drying lustrous varnish, for use on furniture and interior work. This varnish is tough and elastic. It is not intended to rub or polish. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED EXTRA COACH VARNISH

A SERVICEABLE varnish for use on wagons and farm implements. Suitable also for kitchen woodwork, outside doors, store fronts, etc. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED AUTOMOBILE COLOUR VARNISH

A SOLID covering and colour varnish of superior quality. Intended for high-class work on automobiles, carriages, etc. Made in medium Maroon, Mercedes Gray, Deep Blue, Cream Colour and Black. Cream Colour put up in one quart and pint size cans. All other shades put up in one quart size cans only.

CERTAIN-TEED EXTRA BLACK ASPHALTUM VARNISH

A HIGH grade, jet black, durable asphaltum varnish. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED NO-RUB FLAT VARNISH

FOR interior work where a flat or velvet finish is desired. Produces the effect of a rubbed varnish without the extra labor of rubbing. Contains no wax or pigment, and therefore requires no mixing before use. To obtain the best results, apply *Certain-teed* No-Rub Flat Varnish over a gloss coat. Put up in one gallon, one quart and one pint cans.

Why the Detailed Analysis is Printed on Every Can of *Certain-teed* Paints but is Not Printed on the *Certain-teed* Varnish Can

EACH ingredient, and the exact proportion which it represents in the finished paint, is tabulated on the *Certain-teed* can label. Thus you are enabled to see just what the can contains and to assure yourself of the excellence of the paint.

No formula can be shown on the *Certain-teed* Varnish Label, because of chemical changes which occur in the materials used during the processes of varnish manufacture.

"It is possible," says circular No. 69 of the Bureau of Standards of the United States Department of Commerce, "by variation of the details of mixing and heating to prepare from the same formula . . . varnishes that differ greatly in properties and quality."

The excellence of *Certain-teed* Varnishes is assured by our intimate knowledge of the technique of varnish making and by the responsibility of our \$25,000,000 organization which guarantees that *Certain-teed* Varnishes, as well as all other *Certain-teed* products, are exactly as represented.

CERTAIN-TEED HARD DRYING SEAT FINISH

MANUFACTURED especially for use in the finishing of seats, benches, church pews and similar furniture. It dries hard and does not soften or become sticky under heat or pressure from the body. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED PRACTICAL PAINTERS' INSIDE COACH

A PALE, heavy body, easy working varnish for general interior woodwork. Dries with a high lustre. Used extensively by practical painters. Put up in one gallon, one quart and one pint cans.

CERTAIN-TEED MASTER PAINTERS' JAPAN DRYER

A STRONG transparent light dryer for mixing with paints, colour and linseed oil. Will not curdle.

CERTAIN-TEED SHELLACS

PURE shellacs cut in alcohol—good heavy-bodied products. Prepared in Orange and in White. Put up in one gallon, one quart and one pint size cans.

CERTAIN-TEED TURPENTINE COMPO SHELLAC

WILL serve every purpose where shellac has heretofore been used.

CERTAIN-TEED BRONZING LIQUID

A FIRST grade product of about the consistency of cream, for use in mixing with bronze and aluminum powders. It produces a surface which withstands heat and changes of temperature which may be washed repeatedly.

CERTAIN-TEED LIQUID WOOD FILLER

P ALE, transparent. Closes the pores of close grain woods preparatory to varnishing. Will not discolour the lightest woods. Put up in one gallon and one quart size cans.

CERTAIN-TEED PASTE WOOD FILLER

FOR filling open grain wood before varnishing or staining. Made in "Natural" or transparent finish and in Light Oak. Put up in 1-pound, 5-pound and 12 ½ pound packages.

CERTAIN-TEED CRACK AND CREVICE FILLER

T OUGH, elastic and non-shrinking. Used for filling cracks and crevices in floor and other interior woodwork preparatory to varnishing and painting. Put up in 1-pound and 4-pound packages.

CERTAIN-TEED POLISH

M AINTAINS the life and lustre of newly varnished surfaces. Do not hesitate to use it on the finest furniture. Will not streak, show finger marks or bloom if applied according to directions. Packed 12 bottles to a case.

CERTAIN-TEED METAL POLISH

C LEANS and polishes gold, silver, brass, nickel, bronze, steel, copper, zinc, aluminum and other metal surfaces. Rapid and thorough in action. Will not scratch and is non-injurious to the hands or to the surface upon which used. Put up in one-gallon and one-pint cans.

CERTAIN-TEED PREPARED WAX

O F exceptional quality for use on floors and furniture. More covering capacity than most waxes. Sets hard and does not show marks. 1-pound and 2-pound cans. Packed 48 pounds in a case.

*For approximate weights, sizes, etc., see page 22

WEATHER-SHIELD

Standard Quality

*Paints and Varnishes

(Regular Pack—U. S. A. Standard Measure)

WEATHER-SHIELD Paints and Varnishes are not as good as those bearing the *Certain-teed* label, but are the very best products that can be obtained for the price. The analysis of No. 298 Weather-Shield Outside White Paint, as shown in the tabulation on page 15, is indicative of the good quality of the Weather-Shield products. They are formula made, standard grade products.

There is a Weather-Shield Paint or Varnish for every purpose.

WEATHER-SHIELD HOUSE PAINTS

PAINTS for both exterior and interior surfaces. Put up in one gallon and one quart cans. Covering capacity approximately 250 sq. ft. per gallon, two coats.

WEATHER-SHIELD PORCH AND DECK PAINT

AN exterior paint for porch floors and steps, boat decks and other exposed surfaces. Made in a variety of colours. Covering capacity approximately 325 sq. ft. per gallon, two coats. Put up in one gallon and one quart cans.

WEATHER-SHIELD INSIDE FLOOR PAINT

GIVES good service, is sanitary and prolongs the life of the wood. Made in a variety of colours. Put up in one gallon and one quart sizes. Covering capacity approximately 250 sq. ft. per gallon, two coats.

WEATHER-SHIELD VARNISH STAIN

A COMBINED stain and varnish that produces at one operation a bright, natural hardwood effect on floors and furniture. Made to imitate a variety of finishes. Put up in one gallon, one quart, one pint and one-half pint cans. Covering capacity approximately 225 sq. ft. per gallon, one coat.

WEATHER-SHIELD SCREEN PAINT

SCREENS don't wear out—they rust out! Weather-Shield Screen Paint retards rust and prolongs the life of the wire mesh of door and window screens. It may also be used advantageously on the framework of the screen. Made in two colours, black and green. Put up in one quart, one pint and one half-pint cans.

WEATHER-SHIELD WHITE ENAMEL

FOR use on interior woodwork of bathrooms and hospitals, iron beds, furniture, and anywhere that a washable sanitary surface is wanted. Works easily under the brush and dries with a smooth, glossy finish. Put up in one gallon, one quart, and one-half pint cans.

WEATHER-SHIELD ENAMEL FIRST COATER

FOR use as an under-coater for white and light tints of enamel. White only. Put up in one gallon, one quart and one-half pint cans.

WEATHER-SHIELD AUTO AND CARRIAGE PAINT

FOR waterproofing and recoating vehicles which have become worn and dingy. Made in a variety of colours. Put up in one quart, one pint, and one-half pint cans.

WEATHER-SHIELD WAGON AND IMPLEMENT PAINT

PRODUCES a bright attractive finish and retards rust and decay. Made in a variety of colours. Put up in one gallon, one quart and one-half pint cans.

WEATHER-SHIELD BARN, BRIDGE AND ROOF PAINT

AN economical paint for barns, bridges, roofs and general exterior work where the protection from atmospheric agencies is the chief consideration. Made in several different colours. Put up in five gallons and one gallon cans. Covering capacity approximately 300 sq. ft. per gallon.

WEATHER-SHIELD WALL SIZE

A VARNISH product for preparing the surface of plastered walls not previously painted. Covering capacity over smooth plaster approximately 400 sq. ft. per gallon. Put up in one gallon and one quart cans.

WEATHER-SHIELD COMBINATION ZINC WHITE IN OIL

A COMBINATION of zinc and other white pigments ground in linseed oil so as to meet requirements and give good service where price is the consideration. Put up in 25-lb. and 12½-lb. packages.

WEATHER-SHIELD COMBINATION ZINC WHITE IN VARNISH

A COMBINATION of zinc and other white pigments ground in varnish, so as to meet requirements and give good service, where price is the consideration. Put up in 25-lb. and 12½-lb. packages.

WEATHER-SHIELD OUTSIDE SPAR VARNISH

A GOOD durable varnish at a medium price for outside use on store fronts, outside doors, marine work and other exposed surfaces. Dries hard and glossy. Put up in one gallon, one quart and one pint cans.

WEATHER-SHIELD FLOOR VARNISH

A VARNISH made to be walked on. Wears well and gives good service under all ordinary conditions. It is durable, elastic and waterproof. Dries in about twelve hours. Put up in one gallon, one quart and one pint cans.

WEATHER-SHIELD INTERIOR SPAR VARNISH

A VARNISH for general interior woodwork. It dries in about twelve hours with a good lustre and may be rubbed if desired. Put up in one gallon, one quart, and one pint cans.

WEATHER-SHIELD LIGHT HARD OIL FINISH

A MEDIUM priced varnish for use where a hard finish coat is desired on woodwork and furniture. Dries with a good lustre in about twelve hours and may be rubbed if desired. Put up in one gallon, one quart and one pint cans.

WEATHER-SHIELD FURNITURE VARNISH

A QUICK drying varnish adapted to general household use on new or old work. Dries hard in twelve hours with a good gloss. Not recommended for seats or back of chairs. Put up in one gallon, one quart and one pint sizes.

WEATHER-SHIELD LIGHT COACH VARNISH

A VARNISH for wagons and farm implements, and for exterior and interior architectural purposes. Put up in one gallon, one quart and one pint cans.

WEATHER-SHIELD QUICK DRYING ASPHALTUM

IN TENDED for painting elevator grills, hand rails, and other interior metal work. Jet black. Dries in about thirty minutes. Put up in one gallon, one quart and one pint cans.

WEATHER-SHIELD JAPAN DRYER

AN economical benzine dryer for general work. Put up in one gallon, one quart and one pint cans.



Only Weather-Shield Standard Quality
Paints and Varnishes bear this label.

*For approximate weights, sizes, etc., see page 22.

APPROXIMATE SHIPPING WEIGHTS AND MEASUREMENTS OF *Certain-teed* PRODUCTS WHEN ORDERING THROUGH **NEW YORK OFFICE** CONSULT THIS SCHEDULE

CERTAIN-TEED SMOOTH-SURFACED ASPHALT ROOFING MAJOR (STANDARD QUALITY) ASPHALT ROOFING GUARD (SPECIAL QUALITY) ASPHALT ROOFING

32" WIDE—1 SQUARE ROLLS

Put up in rolls 32" wide and 40' 6" long, containing 108 square feet, being sufficient to cover 100 square feet of roof surface, the extra 8 square feet being allowed for a 2" lap.

A. Domestic			
B. Extra Paper Wrap			
C. Double Wrap and Cloth End			
	1-ply	2-ply	3-ply
Average measurement of roll.....	7 $\frac{3}{4}$ x 7 $\frac{3}{4}$ x 32"	8 x 8 x 32"	8 $\frac{3}{4}$ x 8 $\frac{3}{4}$ x 32"
Ship measurement of roll.....	7 x 7 x 32"	8 x 8 x 32"	9 x 9 x 32"
Cubic contents.....	11/12 cu. ft.	1-2/12 cu. ft.	1-6/12 cu. ft.
Weight with nails and cement.....	35 lbs.	45 lbs.	55 lbs.
Weight without nails and cement.....	32 lbs.	42 lbs.	52 lbs.
E. Cased—(2 rolls to wooden case)			
Average measurement of case.....	7 $\frac{3}{4}$ x 15 $\frac{1}{4}$ x 34 $\frac{1}{2}$ "	8 $\frac{1}{2}$ x 16 $\frac{1}{2}$ x 34 $\frac{1}{2}$ "	9 $\frac{1}{4}$ x 19 x 34 $\frac{1}{2}$ "
Ship measurement of case.....	8 x 15 x 34"	9 x 16 x 35"	9 x 19 x 35"
Cubic contents.....	2-4/12 cu. ft.	2-11/12 cu. ft.	3-6/12 cu. ft.
Net wt. rfg. with C. & N. in rolls.....	70 lbs.	90 lbs.	110 lbs.
Net wt. rfg. without N. & C. in rolls.....	64 lbs.	84 lbs.	104 lbs.
Weight of case.....	10 lbs.	11 lbs.	13 lbs.
Gross wt. with cement and nails.....	80 lbs.	101 lbs.	123 lbs.
Gross wt. without cement and nails.....	74 lbs.	95 lbs.	117 lbs.

32" WIDE—2 SQUARE ROLLS

Put up in rolls 32" wide and 81' long, containing 216 square feet, being sufficient to cover 200 square feet of roof surface, the extra 16 square feet being allowed for a 2" lap.

A. Domestic			
B. Extra Paper Wrap			
C. Double Wrap and Cloth End			
	1-ply	2-ply	3-ply
Average measurement of roll.....	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$ x 32"	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 32"	11 $\frac{1}{8}$ x 11 $\frac{1}{8}$ x 32"
Ship measurement of roll.....	10 x 10 x 32"	11 x 11 x 32"	12 x 12 x 32"
Cubic contents.....	1-10/12 cu. ft.	2-3/12 cu. ft.	2-8/12 cu. ft.
Weight with nails and cement.....	70 lbs.	90 lbs.	110 lbs.
Weight without nails and cement.....	64 lbs.	84 lbs.	104 lbs.
E. Cased—(1 roll to wooden case)			
Average measurement of case.....	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 34 $\frac{1}{2}$ "	11 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 34 $\frac{1}{2}$ "	12 $\frac{1}{8}$ x 12 $\frac{1}{8}$ x 34 $\frac{1}{2}$ "
Ship measurement of case.....	10 x 10 x 35"	11 x 12 x 35"	13 x 13 x 35"
Cubic contents.....	2 cu. ft.	2-8/12 cu. ft.	3-5/12 cu. ft.
Net wt. rfg. with C. & N. in rolls.....	70 lbs.	90 lbs.	110 lbs.
Net wt. rfg. without N. & C. in rolls.....	64 lbs.	84 lbs.	104 lbs.
Weight of case.....	10-2/5 lbs.	11 lbs.	13 lbs.
Gross wt. with C. & N. in rolls.....	80-2/5 lbs.	101 lbs.	121 lbs.
Gross wt. without cement and nails.....	74-2/5 lbs.	95 lbs.	115 lbs.

36" WIDE—1 SQUARE ROLLS

Put up in rolls 36" wide, 36' long, containing 108 square feet, being sufficient to cover 100 square feet of roof surface, the extra 8 square feet being allowed for a 2" lap.

A. Domestic			
B. Extra Paper Wrap			
C. Double Wrap and Cloth End			
	1-ply	2-ply	3-ply
Average measurement of roll.....	7 x 7 x 36"	7 $\frac{3}{4}$ x 7 $\frac{3}{4}$ x 36"	8 $\frac{1}{2}$ x 8 $\frac{1}{2}$ x 36"
Ship measurement of roll.....	7 x 7 x 36"	8 x 8 x 36"	8 x 9 x 36"
Cubic contents.....	1 cu. ft.	1-4/12 cu. ft.	1-6/12 cu. ft.
Weight with nails and cement.....	35 lbs.	45 lbs.	55 lbs.
Weight without nails and cement.....	32 lbs.	42 lbs.	52 lbs.
E. Cased—(2 rolls to wooden case)			
Average measurement of case.....	7 $\frac{1}{2}$ x 14 $\frac{1}{2}$ x 38 $\frac{1}{4}$ "	8 $\frac{1}{4}$ x 16 x 38 $\frac{1}{4}$ "	9 x 17 $\frac{1}{2}$ x 38 $\frac{1}{4}$ "
Ship measurement of case.....	7 x 15 x 38"	8 x 16 x 38"	9 x 18 x 38"
Cubic contents.....	2-4/12 cu. ft.	2-10/12 cu. ft.	3-7/12 cu. ft.
Net wt. rfg. with C. & N. in rolls.....	70 lbs.	90 lbs.	110 lbs.
Net wt. rfg. without N. & C. in rolls.....	64 lbs.	84 lbs.	104 lbs.
Weight of case.....	11 lbs.	12 lbs.	14 lbs.
Gross wt. with cement and nails.....	81 lbs.	102 lbs.	124 lbs.
Gross wt. without cement and nails.....	75 lbs.	96 lbs.	118 lbs.

36" WIDE—2 SQUARE ROLLS

Put up in rolls 36" wide and 72' long, containing 216 square feet, being sufficient to cover 200 square feet of roof surface, the extra 16 square feet being allowed for a 2" lap.

A. Domestic			
B. Extra Paper Wrap			
C. Double Wrap and Cloth End			
	1-ply	2-ply	3-ply
Average measurement of roll.....	8 $\frac{1}{8}$ x 8 $\frac{1}{8}$ x 36"	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 36"	10 $\frac{1}{2}$ x 10 $\frac{1}{2}$ x 36"
Ship measurement of roll.....	9 x 9 x 36"	10 x 10 x 36"	11 x 11 x 36"
Cubic contents.....	1-8/12 cu. ft.	2-1/12 cu. ft.	2-6/12 cu. ft.
Weight with nails and cement.....	70 lbs.	90 lbs.	110 lbs.
Weight without nails and cement.....	64 lbs.	84 lbs.	104 lbs.
E. Cased—(1 roll to wooden case)			
Average measurement of case.....	9 $\frac{3}{4}$ x 9 $\frac{3}{4}$ x 38 $\frac{1}{4}$ "	11 x 11 x 38 $\frac{1}{4}$ "	12 x 12 x 38 $\frac{1}{4}$ "
Ship measurement of case.....	10 x 10 x 38"	11 x 11 x 38"	12 x 12 x 38"
Cubic contents.....	2-2/12 cu. ft.	2-8/12 cu. ft.	3-2/12 cu. ft.
Net wt. rfg. with C. & N. in rolls.....	70 lbs.	90 lbs.	110 lbs.
Net wt. rfg. without cement and nails.....	64 lbs.	84 lbs.	104 lbs.
Weight of case.....	10-2/5 lbs.	12 lbs.	13 lbs.
Gross wt. with C. & N. in rolls.....	80-2/5 lbs.	102 lbs.	123 lbs.
Gross wt. without cement and nails.....	74-2/5 lbs.	96 lbs.	117 lbs.

SENTINEL (COMPETITION QUALITY) SAND-SURFACED ASPHALT ROOFING

32" WIDE—2 SQUARE ROLLS

Put up in rolls 32" wide and 81' long, containing 216 square feet, being sufficient to cover 200 square feet of roof surface, the extra 16 square feet being allowed for a 2" lap.

A. Domestic			
B. Extra Paper Wrap			
C. Double Wrap and Cloth End			
	1-ply	2-ply	3-ply
Average measurement of roll.....	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$ x 32"	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 32"	12 x 12 x 32"
Ship measurement of roll.....	10 x 10 x 32"	11 x 11 x 32"	12 x 12 x 32"
Cubic contents.....	1-10/12 cu. ft.	2-3/12 cu. ft.	2-8/12 cu. ft.
Weight with nails and cement.....	70 lbs.	90 lbs.	110 lbs.
Weight without nails and cement.....	64 lbs.	84 lbs.	104 lbs.
E. Cased—(1 roll to wooden case)			
Average measurement of roll.....	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 34 $\frac{1}{2}$ "	11 $\frac{1}{4}$ x 11 $\frac{1}{4}$ x 34 $\frac{1}{2}$ "	12 $\frac{1}{8}$ x 12 $\frac{1}{8}$ x 34 $\frac{1}{2}$ "
Ship measurement of roll.....	11 x 11 x 35"	12 x 12 x 35"	13 x 13 x 35"
Cubic contents.....	2-6/12 cu. ft.	2-11/12 cu. ft.	3-5/12 cu. ft.
Net wt. rfg. with nails and cement.....	70 lbs.	90 lbs.	110 lbs.
Net wt. rfg. without N. & C. in rolls.....	64 lbs.	84 lbs.	104 lbs.
Weight of case.....	10 lbs.	11 lbs.	12 lbs.
Gross wt. with C. & N. in rolls.....	80 lbs.	101 lbs.	122 lbs.
Gross wt. without cement and nails.....	74 lbs.	95 lbs.	116 lbs.

36" WIDE—2 SQUARE ROLLS

Put up in rolls 36" wide and 72' long, containing 216 square feet, being sufficient to cover 200 square feet of roof surface, the extra 16 square feet being allowed for a 2" lap.

A. Domestic			
B. Extra Paper Wrap			
C. Double Wrap and Cloth End			
	1-ply	2-ply	3-ply
Average measurement of roll.....	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$ x 36"	10 $\frac{3}{8}$ x 10 $\frac{3}{8}$ x 36"	11 $\frac{1}{4}$ x 11 $\frac{1}{4}$ x 36"
Ship measurement of roll.....	9 x 9 x 36"	11 x 11 x 36"	11 x 11 x 36"
Cubic contents.....	1-8/12 cu. ft.	2-6/12 cu. ft.	2-6/12 cu. ft.
Weight with nails and cement.....	70 lbs.	90 lbs.	110 lbs.
Weight without nails and cement.....	64 lbs.	84 lbs.	104 lbs.
E. Cased—(1 roll to wooden case)			
Average measurement of roll.....	10 x 10 x 38 $\frac{1}{4}$ "	11 $\frac{1}{4}$ x 11 $\frac{1}{4}$ x 38 $\frac{1}{4}$ "	12 x 12 x 38 $\frac{1}{4}$ "
Ship measurement of roll.....	10 x 10 x 38"	11 x 11 x 38"	12 x 12 x 38"
Cubic contents.....	2-2/12 cu. ft.	2-8/12 cu. ft.	3-2/12 cu. ft.
Net wt. rfg. with C. & N. in rolls.....	70 lbs.	90 lbs.	110 lbs.
Net wt. rfg. without N. & C. in rolls.....	64 lbs.	84 lbs.	104 lbs.
Weight of case.....	10 $\frac{1}{2}$ lbs.	12 lbs.	13 lbs.
Gross wt. with C. & N. in rolls.....	80 $\frac{1}{2}$ lbs.	102 lbs.	123 lbs.
Gross wt. without C. & N. in rolls.....	74 $\frac{1}{2}$ lbs.	96 lbs.	117 lbs.

NOTE—All weights are approximate.

U. S. A. Abbreviations for feet and inches are (') and (") respectively.

APPROXIMATE SHIPPING WEIGHTS AND MEASUREMENTS OF *Certain-teed* PRODUCTS WHEN ORDERING THROUGH NEW YORK OFFICE CONSULT THIS SCHEDULE

CERTAIN-TEED RED OR GREEN MINERAL SURFACED ROOFING, IN ROLLS 32' WIDE—1 SQUARE ROLLS

Put up in rolls 32' wide and 40' 6" long, containing 108 square feet, being sufficient to cover 100 square feet of roof surface, the extra 8 square feet being allowed for a 2" lap.

A. Domestic	
B. Extra Paper Wrap	
C. Double Wrap and Cloth End	
Average measurement of rolls.....	10 x 10 x 32'
Ship measurement of rolls.....	10 x 10 x 32'
Cubic contents.....	1-10/12 cu. ft.
Weight with nails and cement.....	80 lbs.
Weight without nails and cement.....	77 lbs.
E. Cased—(1 roll to case)	
Average measurement of case.....	10 1/2 x 10 1/2 x 34 1/4"
Ship measurement of case.....	10 x 11 x 34"
Cubic contents.....	2-2/12 cu. ft.
Net weight roofing with nails and cement.....	80 lbs.
Net weight roofing without nails and cement.....	77 lbs.
Weight of case.....	11 lbs.
Gross weight with cement and nails in rolls.....	91 lbs.
Gross weight without cement and nails in rolls.....	88 lbs.

CERTAIN-TEED RED OR GREEN MINERAL SURFACED SHINGLES

Size of shingle..... 8 x 12 3/4"
No. of shingles per square..... 424
No. of cartons per square..... 4
No. of cases per square..... 1

Cased—(Case contains 4 cartons—one case to a square)

Average measurement per one square case..... 19 x 14 1/2 x 33 1/2"
Ship measurement per one square case..... 19 x 33 x 14"
Weight of 4 cartons..... 6 lbs.
Weight of 1 case..... 12 lbs.
Net weight of shingles..... 230 lbs. per sq.
Gross weight of shingles..... 248 lbs. per sq.

LAP CEMENT

Packed in Cases

Case containing 25 cans of Lap Cement, sufficient to apply 25 one-square rolls Roofing.

Average measurement of case..... 6 1/4 x 15 1/4 x 16 3/4"
Ship measurement of case..... 6 x 15 x 17"
Cubic contents..... 11/12 cu. ft.
Net weight..... 41 lbs.
Weight of case..... 7 lbs.
Gross weight..... 48 lbs.

Packed in Cases

Case containing 25 cans of Lap Cement, sufficient to apply 25 two-square rolls Roofing.

Average measurement of case..... 15 1/4 x 16 3/4 x 14 1/4"
Ship measurement of case..... 15 x 17 x 14"
Cubic contents..... 2-1/12 cu. ft.
Net weight..... 76 lbs.
Weight of case..... 10 lbs.
Gross weight..... 86 lbs.

NAILS

Packed in kegs

Average measurement of case..... 11 x 11 x 18"
Ship measurement of case..... 11 x 11 x 18"
Cubic contents..... 1-3/12 cu. ft.
Net weight..... 100 lbs.
Weight of case..... 6 lbs.
Gross weight..... 106 lbs.

Packed in paper bags

Case containing 25 one-square packages of nails, sufficient to apply 25 one-square rolls Roofing.

Average measurement of case..... 13 1/2 x 15 1/4 x 2 1/2"
Ship measurement of case..... 14 x 15 x 2"
Cubic contents..... 3/12 cu. ft.
Net weight..... 22 1/2 lbs.
Weight of case..... 4 lbs.
Gross weight..... 26 1/2 lbs.

Packed in paper bags

Case containing 25 two-square packages of nails, sufficient to apply 25 two-square rolls Roofing.

Average measurement of case..... 5 x 14 1/2 x 15 1/4"
Ship measurement of case..... 5 x 15 x 15"
Cubic contents..... 8/12 cu. ft.
Net weight..... 45 lbs.
Weight of case..... 5 lbs.
Gross weight..... 50 lbs.

INSULATING PAPER

Saturated and Coated

	Width	Sq. Ft.	Measurement Average	Shipping Measurement	Cubic Contents	Weight
Medium.....	36"	500	5 3/4 x 5 3/4 x 36"	6 x 6 x 36"	9/12 cu. ft.	20 lbs.
Heavy.....	36"	500	7 x 7 x 36"	7 x 7 x 36"	1 cu. ft.	35 lbs.
Extra heavy.....	36"	500	8 x 8 x 36"	8 x 8 x 36"	1-4/12 cu. ft.	45 lbs.
Saturated Only						
No. 30 Insulator.....	36"	500	6 3/8 x 6 3/8 x 36"	7 x 7 x 36"	1 cu. ft.	30 lbs.

DAMPCOURSE

(Packed in wooden cases)

Width	Length	Sq. Ft. per Roll	Wt. per Roll	No. Rolls to Case	Average Measurement of Case	Shipping Measurement of Case	Cu. Ft. Contents of Case	Net Wt. Damp-course Lbs.	Wt. of Case Lbs.	Gross Wt. per Case Lbs.
4"	72'	24	10	9	10 1/2 x 10 1/2 x 38 1/4"	10x11x38	2- 5/12 cu. ft.	84	12	96
4 1/2"	72'	27	11	8	10 1/2 x 10 1/2 x 38 1/4"	10x11x38	2- 5/12 cu. ft.	84	12	96
9"	72'	54	22	4	10 1/2 x 10 1/2 x 38 1/4"	10x11x38	2- 5/12 cu. ft.	84	12	96
9 1/2"	72'	57	23	3	10 1/2 x 10 1/2 x 30 3/4"	10x11x31	2 cu. ft.	66	10	76
14"	72'	93	33	2	10 1/2 x 10 1/2 x 30 1/4"	10x11x30	1-11/12 cu. ft.	66	10	76
15 1/2"	72'	111	43	2	10 1/2 x 10 1/2 x 33 1/4"	10x11x33	2- 1/12 cu. ft.	74	11	85
18 1/2"	72'	138	54	2	10 1/2 x 10 1/2 x 39 1/4"	10x11x39	2- 6/12 cu. ft.	86	12	98
23"	72'	165	64	1	10 1/2 x 10 1/2 x 48 1/4"	10x11x48	3- 1/12 cu. ft.	108	15	123
27 1/2"	72'	216	84	1	10 1/2 x 10 1/2 x 29 3/4"	10x11x30	1-11/12 cu. ft.	64	11	75
36"	72'	216	84	1	10 1/2 x 10 1/2 x 38 1/4"	10x11x38	2- 5/12 cu. ft.	84	12	96

TARRED FELT

A. Domestic Packed

B. Extra Wrapped

	Width	Sq. Ft. Contents	Average Measurement	Shipping Measurement	Cubic Contents	Weight
No. 1.....	32"	216 sq. ft.	7 3/4 x 7 3/4 x 32"	8 x 8 x 32"	1-2/12 cu. ft.	43 lbs.
No. 2.....	32"	324 sq. ft.	7 3/4 x 7 3/4 x 32"	8 x 8 x 32"	1-2/12 cu. ft.	43 lbs.
No. 3.....	32"	500 sq. ft.	8 3/4 x 8 3/4 x 32"	9 x 9 x 32"	1-6/12 cu. ft.	60 lbs.

SLATER'S FELT

A. Domestic Packed

B. Extra Wrapped

	Width	Sq. Ft. Contents	Average Measurement	Shipping Measurement	Cubic Contents	Weight
No. 1.....	36"	500 sq. ft.	6 3/4 x 6 3/4 x 36"	7 x 7 x 36"	1 cu. ft.	30 lbs.

ASPHALT FELT

A. Domestic Packed

B. Extra Wrapped

	Width	Sq. Ft. Contents	Average Measurement	Shipping Measurement	Cubic Contents	Weight
No. 1.....	32"	216 sq. ft.	7 1/2 x 7 1/2 x 32"	8 x 8 x 32"	1-2/12 cu. ft.	43 lbs.
No. 2.....	32"	324 sq. ft.	7 1/2 x 7 1/2 x 32"	8 x 8 x 32"	1-2/12 cu. ft.	43 lbs.
No. 3.....	32"	500 sq. ft.	8 3/4 x 8 3/4 x 32"	9 x 9 x 32"	1-6/12 cu. ft.	60 lbs.
No. 1.....	36"	216 sq. ft.	7 x 7 x 36"	7 x 7 x 36"	1 cu. ft.	42 lbs.
No. 2.....	36"	324 sq. ft.	7 1/2 x 7 1/2 x 36"	8 x 8 x 36"	1-4/12 cu. ft.	48 lbs.
No. 3.....	36"	500 sq. ft.	7 1/2 x 7 1/2 x 36"	8 x 8 x 36"	1-4/12 cu. ft.	60 lbs.

DEADENING FELT

A. Domestic Packed

B. Extra Wrapped

	Width	Sq. Ft. Contents	Measurements	Cubic Contents	Weight
3/4 lb.....	36"	450 sq. ft.	11 x 11 x 36"	2-6/12 cu. ft.	40 lbs.
1 lb.....	36"	450 sq. ft.	12 x 12 x 36"	3 cu. ft.	50 lbs.
1 1/2 lb.....	36"	450 sq. ft.	14 x 14 x 36"	4-1/12 cu. ft.	75 lbs.
2 lb.....	36"	450 sq. ft.	16 x 16 x 36"	5-4/12 cu. ft.	100 lbs.

BUILDING PAPERS

A. Domestic Packed

B. Extra Wrapped

Red, Gray or Blue Rosin-Sized Sheathing

	Width	Sq. Ft.	Average Measurement	Shipping Measurement	Cubic Contents	Weight
No. 20.....	36"	500	6 1/2 x 6 1/2 x 36"	6 x 7 x 36"	11/12 cu. ft.	20 lbs.
No. 25.....	36"	500	6 3/4 x 6 3/4 x 36"	7 x 7 x 36"	1 cu. ft.	25 lbs.
No. 30.....	36"	500	7 1/2 x 7 1/2 x 36"	7 x 8 x 36"	1-2/12 cu. ft.	30 lbs.
No. 35.....	36"	500	7 3/4 x 7 3/4 x 36"	8 x 8 x 36"	1-4/12 cu. ft.	35 lbs.
No. 40.....	36"	500	8 x 8 x 36"	8 x 8 x 36"	1-4/12 cu. ft.	40 lbs.

ASPHALT—SOLID

(Packed in drums)	Average Measurements	Shipping Measurements	Cubic Contents	Wt. of Cement	Wt. of Barrel	Gross Weight
	15 1/2 x 15 1/2 x 29 3/8"	16 x 16 x 30"	4-5/12 cu. ft.	328 lbs.	32 lbs.	360 lbs.

PLASTIC CEMENT

	Average Measurements	Shipping Measurements	Cubic Contents	Net Weight	Gross Weight
Barrels.....	22 1/2 x 22 1/2 x 33 1/4"	23x23x33"	10- 1/12 cu. ft.	375 lbs.	450 lbs.
Half barrels.....	18 5/8 x 18 5/8 x 29"	19x19x29"	6- 1/12 cu. ft.	225 lbs.	275 lbs.
50-lb. cans.....	10 x 11 1/4 x 15 1/2"	10x11x16"	1 cu. ft.	60 lbs.	62 lbs.
25-lb. cans.....	8 1/2 x 9 1/4 x 13 3/4"	8x 9x14"	7/12 cu. ft.	25 lbs.	32 lbs.
10-lb. cans crated 6 to crate.....	15 1/4 x 23 1/4 x 9"	15x23x9"	1-10/12 cu. ft.	60 lbs.	80 lbs.
1-lb. cans crated 36 to crate.....	13 1/4 x 9 1/2 x 18 1/2"	13x10x18"	1- 4/12 cu. ft.	36 lbs.	54 lbs.

PAINTS

	Average Measurements	Shipping Measurements	Cubic Contents	Net Weight	Gross Weight	Gallons
Barrels.....	23 1/2 x 23 1/2 x 31 3/8"	23x24x32"	10-3/12 cu. ft.	370 lbs.	420 lbs.	50
Half barrels.....	19 1/4 x 19 1/4 x 27 3/4"	19x19x28"	5-10/12 cu. ft.	187 lbs.	225 lbs.	28
5-gal. crate.....	10 1/4 x 11 1/4 x 15 1/2"	10x11x16"	1 cu. ft.	42 lbs.	50 lbs.	5
Crate, 6 1-gal. cans.....	23 x 14 1/2 x 8 3/4"	23x15x8"	1-7/12 cu. ft.	48 lbs.	57 lbs.	6

NOTE—All weights are approximate.

U. S. A. Abbreviations for feet and inches are (') and (") respectively.

APPROXIMATE SHIPPING WEIGHTS AND MEASUREMENTS OF *Certain-tee* PRODUCTS WHEN ORDERING THROUGH **SAN FRANCISCO OFFICE** CONSULT THIS SCHEDULE

DOMESTIC PACKING: Roofing in Rolls 36 inches wide—uncrated—sufficient, each, for two squares of roof area. Roofing nails and lap cement for laying packed separate in boxes sufficient, each, for twenty-five rolls.

COMMODITY	Quantity	Shipping Measurements, Inches	Cargo Space, Cubic Feet	Gross Weight, Pounds	Weight with Inner Packing, Pounds	Net Weight Material, Pounds
ROOFING, Plain (All Grades)						
1-ply, 36"x72' rolls, each.....	216 sq. ft.....	9x9x36	1- 8/12	64	64	64
2-ply, 36"x72' rolls, each.....	216 sq. ft.....	10x10x36	2- 1/12	84	84	84
3-ply, 36"x72' rolls, each.....	216 sq. ft.....	11x11x36	2- 6/12	104	104	104
Lap Cement for 25 rolls, box, 25 cans.....	0.3 Am. gals. each.....	14x16x18	2- 4/12	89	65	58
Galvanized Nails for 25 rolls, box.....	25 pkgs., 2 lbs. each	6x14x18	0-11/12	60	50	50
ASPHALT FELT						
No. 1, rolls, each.....	216 sq. ft.....	8x8x36	1- 4/12	43	43	43
No. 2, rolls, each.....	324 sq. ft.....	8x8x36	1- 4/12	48	48	48
No. 3, rolls, each.....	500 sq. ft.....	9x9x36	1- 8/12	60	60	60
INSULATING PAPER—Saturated and Coated						
Medium, double rolls, each.....	1,000 sq. ft.....	8x8x36	1- 4/12	36	36	36
Heavy, double rolls, each.....	1,000 sq. ft.....	10x10x36	2- 1/12	50	50	50
Extra Heavy, double rolls, each.....	1,000 sq. ft.....	12x12x36	3	70	70	70
Medium, single rolls, each.....	500 sq. ft.....	6x6x36	0- 9/12	18	18	18
Heavy, single rolls, each.....	500 sq. ft.....	7x7x36	1	25	25	25
Extra Heavy, single rolls, each.....	500 sq. ft.....	8x8x36	1- 4/12	35	35	35
INSULATOR PAPER—Saturated Only						
Double rolls, each.....	1,000 sq. ft.....	12x12x36	3	60	60	60
Single rolls, each.....	500 sq. ft.....	8x8x36	1- 4/12	30	30	30

EXPORT PACKING: Roofing packed one roll to the crate in light, strong crates, occupying but little more shipping space than the bare roll. Roofing nails packed inside the rolls. Lap Cement for laying packed separately, as noted. 216 sq. ft.—sufficient for two squares roof area; 108 sq. ft.—sufficient for one square roof area.

COMMODITY	Quantity	Shipping Measurements, Inches	Cargo Space, Cubic Feet	Gross Weight, Pounds	Weight with Inner Packing, Pounds	Net Weight Material, Pounds
ROOFING, Plain (All Grades)						
1-ply, 36"x72', crates.....	216 sq. ft.....	10x10x39	2- 3/12	81	70	64
2-ply, 36"x72', crates.....	216 sq. ft.....	11x11x39	2- 9/12	103	90	84
3-ply, 36"x72', crates.....	216 sq. ft.....	12x12x39	3- 3/12	124	110	104
Lap Cement for laying 25 rolls, box, 25 cans.....	0.3 Am. gals. each.....	14x16x18	2- 4/12	89	65	58
RED and GREEN SURFACED ROOFING						
(One weight only) 36"x36', crates.....	108 sq. ft.....	10x10x39	2- 3/12	92	78	77
Lap Cement for laying 50 rolls, box, 50 cans.....	0.15 Am. gals. each.....	14x16x18	2- 4/12	89	65	58
RED and GREEN SHINGLES						
Box sufficient for 1/2 square (50 sq. ft.) of roof area, each.....	212 shingles, 8"x12 3/4"	10x15x29	2- 6/12	131	121	120
DAMPCOURSE—Rolls 72 ft. long—In Crates						
4" wide, 9 rolls to crate.....	648 lin. ft.....	10x10x39	2- 3/12	94	84	84
4 1/2" wide, 8 rolls to crate.....	576 lin. ft.....	10x10x39	2- 3/12	94	84	84
9" wide, 4 rolls to crate.....	288 lin. ft.....	10x10x39	2- 3/12	94	84	84
9 1/2" wide, 3 rolls to crate.....	216 lin. ft.....	10x10x31	1-10/12	74	66	66
14" wide, 2 rolls to crate.....	144 lin. ft.....	10x10x31	1-10/12	74	66	66
15 3/4" wide, 2 rolls to crate.....	144 lin. ft.....	10x10x35	2	83	74	74
18 3/4" wide, 2 rolls to crate.....	144 lin. ft.....	10x10x41	2- 4/12	96	86	86
23" wide, 2 rolls to crate.....	144 lin. ft.....	10x10x49	2-10/12	122	108	108
27 1/2" wide, 1 roll to crate.....	72 lin. ft.....	10x10x31	1-10/12	72	64	64
36" wide, 1 roll to crate.....	72 lin. ft.....	10x10x39	2- 3/12	94	84	84
HARD ASPHALT						
In Double Head Wooden Barrels.....	475 lbs., gross.....	25x25x34	12- 4/12	475	440	440
LAP CEMENT						
Metal Drums, uncased.....	50 Am. gals., net.....	23x23x32	9-10/12	435	385	385
Single 5-Gallon Cans, cased.....	5 Am. gals., net.....	12x12x17	1- 5/12	55	42	39
Six 1-Gallon Cans, cased.....	6 Am. gals., net.....	10x16x23	2- 2/12	76	51	46
ROOF COATING						
Metal Drums, uncased.....	50 Am. gals., net.....	23x23x32	9-10/12	465	415	415
Single 5-Gallon Cans, cased.....	5 Am. gals., net.....	12x12x17	1- 5/12	57	44	42
Six 1-Gallon Cans, cased.....	6 Am. gals., net.....	10x16x23	2- 2/12	80	55	50
PLASTIC CEMENT						
Metal Drums, uncased.....	450 lbs., net.....	23x23x32	9-10/12	500	450	450
Single 50-lb. Cans, cased.....	50 lbs., net.....	10x12x17	1- 2/12	62	54	50
Single 25-lb. Cans, cased.....	25 lbs., net.....	8x10x13	0- 7/12	32	27	25
Six 10-lb. Cans, cased.....	10 lbs., net.....	9x16x24	2	80	64	60
Thirty-six 1-lb. Cans, cased.....	36 lbs., net.....	10x14x19	1- 6/12	54	45	36
ROOFING NAILS						
Kegs.....	100 lbs., net.....	11x11x19	1- 4/12	109	100	100

NOTE—All weights are approximate.

U. S. A. Abbreviations for feet and inches are (') and (") respectively.

APPROXIMATE SHIPPING WEIGHTS AND MEASUREMENTS OF *Certain-teed* PRODUCTS. WHEN ORDERING THROUGH New York or San Francisco Offices CONSULT THIS SCHEDULE

CERTAIN-TEED (EXTRA QUALITY) PAINTS AND VARNISHES. WEATHER-SHIELD (STANDARD QUALITY) PAINTS AND VARNISHES.

	5-Gallon Size, Cased		1-Gallon Size, Cased		¼-Gallon Size, Cased		⅓-Gallon Size, Cased		½-Gallon Size, Cased		1-Pound Size, Cased		12½-Pound Size, Cased		25-Pound Size, Cased		5-Pound Size, Cased	
	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos
Empty Case and Packing, Paint	24	10.89	30	13.61	31	14.06	26	11.79	21	9.53	26	11.79	20	9.07	30	13.61	40	18.14
Empty Case and Packing, Varnish	15	6.80	23	10.43	23	10.43	26	11.79	21	9.53	26	11.79	20	9.07	30	13.61	40	18.14
Empty Containers, Paint	3	1.36	5	2.27	9	4.08	12	5.44	9	4.08	9	4.08	9	4.08	9	4.08	9	4.08
Empty Containers, Varnish	3	1.36	4	1.81	6	2.72	9	4.08	9	4.08	9	4.08	9	4.08	9	4.08	9	4.08
Certain-teed House Paints—																		
Outside White	106	48.08	136	61.69	142	64.41	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Shades	95	43.09	119	53.98	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70
Weather-Shield House Paints	90	40.82	117	53.07	120	54.43	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Porch and Deck Paints	90	40.82	117	53.07	120	54.43	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Floor Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Barn, Bridge and Roof Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Graphite Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Flat Wall Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Auto and Carriage Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Wagon and Implement Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Screen Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Enamels	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Enamel First Coater	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Floor Stains	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Shingle Stains	55	24.95	80	36.29	123	55.79	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Cement Floor Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Stucco and Cement Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Metal Paint	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Black Carbon Paints	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Zinc in Oil	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Colours in Oil Average	60	27.22	84	38.10	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36
Kalsomine	103	46.72	138	62.60	140	63.50	140	63.50	138	62.60	140	63.50	138	62.60	140	63.50	138	62.60
Mill White (Flat)	85	38.56	119	53.98	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70
Mill White (Gloss)	85	38.56	119	53.98	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70	100	45.36	125	56.70

VARNISH	Gross Weight		Legal Weight		Net Weight		NOTES
	Pounds	Kilos	Pounds	Kilos	Pounds	Kilos	
5-Gallon Cans packed 1 in case	60	27.22	40	18.14	38	17.24	Gross Weight is the total weight of material, container, packing and case. Legal Weight is the weight of the material and container. Net Weight is the weight of the material only. To arrive at the legal weight, deduct the weight of the empty case and packing from the gross weight. To arrive at the net weight, deduct combined weights of containers, and empty case and packing, from the gross weight.
5-Gallon Cans packed 2 in case	119	53.98	80	36.29	76	34.47	
1-Gallon Cans packed 6 in case	73	33.11	50	22.68	47	21.32	
1-Gallon Cans packed 10 in case	117	53.07	83	37.65	77	34.93	
1-Gallon Cans packed 12 in case	138	62.60	100	45.36	93	42.18	
¼-Gallon Cans packed 24 in case	80	36.29	54	24.49	48	21.77	
⅓-Gallon Cans packed 48 in case	85	38.56	57	25.85	48	21.77	

AVERAGE MEASUREMENT OF CASES, NUMBER OF PACKAGES TO THE CASE, AND SIZE OF PACKAGE.

SIZE OF CAN U. S. A. Standard Measure	Number of Cans in Case	Dimensions of Case		Net Measure per Can		
		In Inches	In Centimeters	U. S. Gallon	Imperial Gallon	Liter
PAINTS						
5-gallon square can	1	11 3/8 x 11 3/8 x 16 1/4	28.9 x 28.9 x 41.9	5	4.164	18.927
1-gallon round can	1	13 x 13 x 15 3/4	33.0 x 33.0 x 40.0	5	4.164	18.927
1-gallon round can	6	23 x 15 3/4 x 9 1/4	58.4 x 40.0 x 23.5	1	0.833	3.785
¼-gallon round can	24	18 3/4 x 15 1/4 x 12 3/8	47.6 x 38.4 x 30.8	1/4	0.208	0.946
⅓-gallon round can	48	22 1/4 x 15 1/4 x 9 7/8	56.5 x 38.7 x 25.1	1/3	0.104	0.473
1/16-gallon round can	48	19 1/4 x 13 1/8 x 8	48.9 x 33.3 x 20.3	1/16	0.052	0.237
BARREL GOODS						
50-gallon wood barrel	—	—	—	50	45.64	208.1
55-gallon iron drum	—	—	—	55	41.64	189.2
VARNISH						
5-gallon square can	1	13 1/2 x 11 3/8 x 16 3/4	34.3 x 29.5 x 42.5	5	4.164	18.927
5-gallon square can	2	25 1/4 x 11 3/8 x 16 3/4	64.1 x 29.5 x 42.5	5	4.164	18.927
1-gallon square can	6	17 x 14 1/2 x 12 3/4	43.2 x 36.8 x 32.4	1	0.833	3.785
1-gallon square can	10	24 x 14 1/2 x 12 3/4	61.0 x 36.8 x 32.4	1	0.833	3.785
¼-gallon square can	24	20 1/2 x 14 1/2 x 12 3/4	74.9 x 36.8 x 32.4	1/4	0.833	3.785
⅓-gallon square can	48	20 1/2 x 13 x 8 1/2	74.9 x 33.0 x 21.6	1/3	0.208	0.946
1/16-gallon square can	48	26 1/4 x 10 x 13	66.7 x 25.4 x 33.0	1/16	0.104	0.473
COLOURS						
1-pound can	48	22 1/4 x 15 1/4 x 9 7/8	56.5 x 38.7 x 25.1	1	0.454	5.670
12 1/2-pound can	6	16 3/8 x 11 3/8 x 6 1/4	41.6 x 28.9 x 15.9	12 1/2	11.340	11.340
25-pound can	4	17 3/4 x 17 3/8 x 8	45.1 x 44.1 x 20.3	25	11.340	11.340
25-pound can (Zinc White)	4	14 3/8 x 14 3/8 x 7 1/2	36.5 x 36.5 x 19.1	25	11.340	11.340
5-pound Kalsomine	20	23 1/2 x 19 x 12 3/4	59.7 x 48.3 x 32.4	5	2.268	2.268

NOTE—All weights are approximate.

U. S. A. abbreviations for feet and inches are (') and (") respectively.

THE Certain-teed Products Corporation, with Export Offices located in the Woolworth Building, New York City, U. S. A., and in the First National Bank Building, San Francisco, Cal., U.S. A., is one of the principal American manufacturing concerns in the Prepared Roofing, Building Paper and Paint and Varnish industries, and has been doing business throughout the civilized world for a number of years. *Certain-teed* Products are well and favorably known everywhere. More than one-fourth of all the Prepared Roofing manufactured in America comes from the Plants of the Certain-teed Products Corporation.

The *Certain-teed* label is placed only upon materials of the highest grade and it is a buyer's safeguard against inferior products.



A Complete List of *Certain-teed* Products

<i>Certain-teed</i> Roofing (Talc Surfaced)	<i>Certain-teed</i> Cement Floor Paint	<i>Certain-teed</i> Liquid Wood Filler
<i>Certain-teed</i> Roofing (Mineral Surfaced) Red or Green	<i>Certain-teed</i> Wall Size	<i>Certain-teed</i> Paste Wood Filler
<i>Certain-teed</i> Asphalt Shingles Red or Green	<i>Certain-teed</i> Flat Wall Paint	<i>Certain-teed</i> Master Painters' Colors in Oil
Major Roofing (Talc Surfaced)	<i>Certain-teed</i> Screen Paint	<i>Certain-teed</i> Porch Furniture Enamel
Guard Roofing (Talc Surfaced)	<i>Certain-teed</i> Inside Floor Paint	<i>Certain-teed</i> Metal Polish
Guard Roofing (Mineral Surfaced) Red or Green	<i>Certain-teed</i> Mill White	<i>Certain-teed</i> Liquid Blackboard Slating
Guard Shingles (Mineral Surfaced) Red or Green	<i>Certain-teed</i> Aluminum Paint	<i>Certain-teed</i> Zinc White in Oil
Sentinel Roofing (Sand Surfaced)	<i>Certain-teed</i> Gold Paint	<i>Certain-teed</i> Zinc White in Varnish
<i>Certain-teed</i> Tarred Felts	<i>Certain-teed</i> Varnish Stain	<i>Certain-teed</i> Universal Varnish
Slaters' Felt	<i>Certain-teed</i> Snow White Enamel	<i>Certain-teed</i> Outside Spar Varnish
Stringed Felt	<i>Certain-teed</i> Bath Room Enamel	<i>Certain-teed</i> Floor Varnish
<i>Certain-teed</i> Asphalt Felts	<i>Certain-teed</i> Interior Enamel	<i>Certain-teed</i> Linoleum Varnish
<i>Certain-teed</i> Deadening Felt	<i>Certain-teed</i> Enamel First Coater	<i>Certain-teed</i> No-Rub Flat Varnish
<i>Certain-teed</i> Sheathing Paper	<i>Certain-teed</i> Stove & Pipe Enamel	<i>Certain-teed</i> Hard Drying Seat Finish
<i>Certain-teed</i> Plaster Board	<i>Certain-teed</i> Auto & Carriage Paint	<i>Certain-teed</i> Interior Spar
<i>Certain-teed</i> Gray Carpet Lining	<i>Certain-teed</i> Auto Top & Seat Dressing	<i>Certain-teed</i> Light Hard Oil Finish
<i>Certain-teed</i> Insulating Paper	<i>Certain-teed</i> Wagon & Implement Paint	<i>Certain-teed</i> Practical Painters' Inside Coach
<i>Certain-teed</i> Plastic Cement	<i>Certain-teed</i> Polish	<i>Certain-teed</i> No. 1 Furniture or Copal Varnish
Asphalt Cement	<i>Certain-teed</i> Prepared Wax	<i>Certain-teed</i> Wagon & Implement Varnishes
Pitch	<i>Certain-teed</i> Barn, Bridge & Roof Paint	<i>Certain-teed</i> Automobile Color Varnishes
<i>Certain-teed</i> Roof Coating	<i>Certain-teed</i> Shingle Stain	<i>Certain-teed</i> Shellacs
<i>Certain-teed</i> Lap Cement	<i>Certain-teed</i> Wood Preservative	<i>Certain-teed</i> Auto Black Enamel
Standard Roof Coating	<i>Certain-teed</i> Metal Paint	<i>Certain-teed</i> Master Painters' Japan Dryer
Refined Tar	<i>Certain-teed</i> Black Carbon Paint	<i>Certain-teed</i> Bronzing Liquid
<i>Certain-teed</i> House Paints	<i>Certain-teed</i> Graphite Paint	<i>Certain-teed</i> Extra Black Asphaltum Varnish
<i>Certain-teed</i> Porch & Deck Paint	<i>Certain-teed</i> Kalsomine	<i>Certain-teed</i> Turpentine Compo Shellac
<i>Certain-teed</i> Stucco & Cement Paint	<i>Certain-teed</i> Crack & Crevice Filler	
Weather-Shield House Paints	Weather-Shield Auto and Carriage Paint	Weather-Shield Floor Varnish
Weather-Shield Porch and Deck Paint	Weather-Shield Wagon and Implement Paint	Weather-Shield Interior Spar Varnish
Weather-Shield Inside Floor Paint	Weather-Shield Barn, Bridge and Roof Paint	Weather-Shield Light Hard Oil Finish
Weather-Shield Varnish Stain	Weather-Shield Wall Size	Weather-Shield Furniture Varnish
Weather-Shield Screen Paint	Weather-Shield Combination Zinc White in Oil	Weather-Shield Light Coach Varnish
Weather-Shield White Enamel	Weather-Shield Combination Zinc White in Varnish	Weather-Shield Quick Drying Asphaltum
Weather-Shield Enamel First Coater	Weather-Shield Outside Spar Varnish	Weather-Shield Japan Dryer

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